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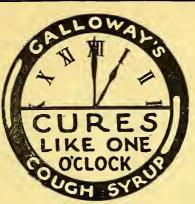
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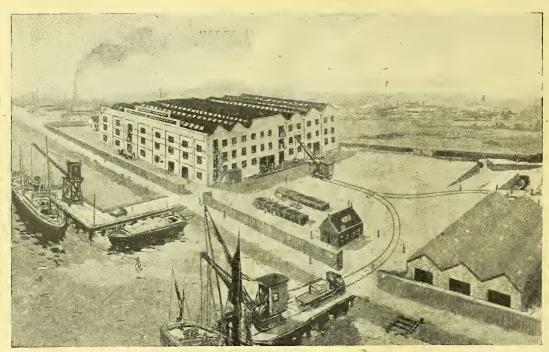






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Bottles,



Narrow-mouth SHOP ROUND



ILES LANG ® SON Wholesale ONLY Works - Charlton Place - Islington - LONDON, N.1. Charlton

Telephones: North 2770-2 (3 lines). Telegrams: "Assorteo, Phone, London."

Codes: ABC, 5th Edition. Scott's 10th Edition (1906).
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PLEASE MENTION THIS PAPER WHEN ENQUIRING.



Prices:

SMALL SIZE. 60/- PER GROSS

5/3 .. DOZ.

LARGE SIZE.

93/- PER GROSS

8/- : .. DOZ.

Where One Gross of a size is ordered any quantity of another size will be supplied at Gross Rates.

THERMAL WOOL

 ${
m IS}$ certainly the most popular name for Capsicum Wool. We pack in different styles, and with each style, as illustrated, we have a complete window display, which is sent out free with all orders for 1 gross and over of the small size, or 6 dozen of the small size and 3 dozen of the large size and over. Red Pod Wool and Otwul are also big sellers, and good showcards are supplied with either of these.

No line is more certain of a successful run than Thermal Wool, and we recommend you to make displays at frequent intervals throughout the winter. The sales will surprise you.

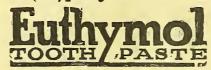
We do not supply neighbouring Pharmacists with the same label, so order now before the right for the one you would like has been allotted.

In big demand all the winter.



NAMES OF THE PROPERTY OF THE P

"The (dis)play's the thing"



Window Dressing Competition.

LIST OF PRIZE WINNERS

Selected by R. Harman, Esq. (Editor of "Display," the official organ of the British Association of Display Men), and W. G. Rowe, Esq. (Display Manager, Messrs. Dickins & Jones, Ltd.)

Class A. 1st Prizes.

1 Askew, W. E.; c/o A. E. Turner, 232 Highbury Road, Bulwell, Notts. 1st Prizes.

2 Barker, J.; 136 Evington Road, Leicester.
3 Clarke, F. H.; 12 Humberstone Gate, Leicester.
4 Glover, P. S.; c/o H. Hodder & Co., Ltd., 286
Stapleton Road, Bristol.
5 Harrison W. H.; 35 Wilherham Road Chorlton.

Harrison, W. H.; 35 Wilbraham Road, Chorlton-cum-Hardy, Manchester.
 Holloway, E. F.; 60 Bennett & Morris, 16 Rushey

Green, Catford.

7 Martin, H. A.; 58 Willow Bridge Street, Leicester.

8 Morley, H. T.; 142 Love Lane, Stockport.

9 Pain, A. W.; Pain & Powell, 52 High Street,
Sevenoaks.

10 Woollons, C. B.; 28 Kilburn Lane, W. 10.

Class B. 2nd Prizes.

1 Allen, S. B.; c/o J. W. Webber, 202 High Road,
Chiswick.

2 Briston, J.; c/o H. Hodder & Co., Ltd., 14 New Bond Street, Bath.

3 Butterworth, J.; c/o H. Collins, 14 Ashton Road, Denton.

Davies, Mrs. J. B.; c/o Freeman & Son, 100 Dalling Road, Hammersmith.
 Dobson, R. M.G.; 566 Rochdale Road, Manchester.
 Gadsby, P. B.; c/o Needhams, Ltd., 58 High Street,

Leicester.
7 Harper, J.W.; 111 Cold Bath Road, Harrogate.
8 McGavin, W.; McGavin & Son, 110 Friargate,

Symms, F.; c/o Needhams, Ltd., 76 Golders Green Road, N.W. 11.
 Melville, T. F.; Red Dragon Pharmacy, Neath.

Class C.

Class C.

1 Allkins, W. H.; Coulsdon.
2 Baker, L. A.; c/o S. H. Plattin, Nottingham.
3 Brooks, L. C.; c/o Barnes & Crompton, Leyland.
4 Connolly, J. J.; Westport, Co. Mayo.
5 Cooper, C. H.; c/o Timmis & Ingham, Ilford.
6 Craven, E.; Littleborough, Lancs.
7 Crossley, A.; Stockport.
8 Cunnington, M.; c/o Matthews, Ltd., Golders Gn.
9 Davidson, J. L.; c/o Parkes Drug Stores, Ltd.,
Holloway Road.
10 Dobson, Miss A.; c/o M. G. Dobson, Manchester.
11 Eley, P. G.; Southampton.
12 Elliott, F. W.; c/o H. C. Camplin, Horsham.
13 England, E. S.; c/o J. W. Lasham, Romford.
14 Fasham, Mrs. E. J.; c/o W. H. Hampton,
Gloucester.

14 Fasham, Mrs. E. J.; 'c/o W. H. Hampton, Gloucester.

15 Field, F. C.; c/o J. W. Carr, Ltd., Newmarket.
16 Francis, J. H.; c/o Francis & Co., Wrexham.
17 Gibb, R.; c/o T. Scott, Motherwell.
18 Glanville, F. F.; c/o T. O. Barlow, Southsea.
19 Golding, V. J.; c/o W. H. Goy, Clapham Common.
20 Goy, W. H.; Clapham Common.
21 Green, W. S.; c/o T. H. Cheetham, Tyne Dock.
22 Gross. G. F. C.; c/o Needhams, Ltd., Edgware Road.

Road.

Road.
23 Gullick, F. R. G.; c/o B. Carter, Truro.
24 Hammond, Miss H. D.; c/o B. &. H. Supply
Assoc, Ltd., Hove.
25 Hare, Mrs. M.; Birkdale, Southport.

Preston.

3rd Prizes.

26 Hill, J. H.; c/o Stockport Co-operative Society.
27 Hogg, Miss M.; c/o R. Hogg, Glasgow.
28 Homer, E.; Beale & Homer, Plymouth.
29 Jacques, Miss F.; c/o Hart & Co., Derby.
30 Lynex, H. F.; c/o Needhams, Ltd., Birmingham.
31 Malcolm, W. W.; c/o Frazer & Green, Ltd.,

Glasgow.

32 Mellor, E. M.; Uttoxeter.
33 Moffat, H.; c/o W. Morrell, Kew.
34 Morgan, W. G.; c/o Fowke & Son, Stafford.
35 Morley, H. T.; Stockport.
36 Noble, R. W.; c/o Parkes Drug Stores, Ltd.,
Balbam Balham.

Balham.

37 Parkinson, J.; c/o H. Hodder & Co., Bristol.

38 Phillips, W.; c/o J. Stewart, Limerick.

39 Poingdestre, C. E.; Greenwich.

40 Piper, E. A.; c/o R. H. Barker & Co., Windermere.

41 Powell, G. S.; c/o H. Hocken, Reigate.

42 Ratcliffe, H.; c/o R. Beck, Patricroft.

43 Rayne, H.; Raynes, Ltd., Birmingham.

44 Spyvee, W., Junr.; c/o W. Spyvee, Sleaford.

45 Stephen, E. S.; c/o A. P. Wallace, Aberdeen.

46 Thomas, F. A.; c/o Bellamy & Wakefield,

Birmingham.

47 Wallace, A. P.; Aberdeen.

47 Wallace, A. P.; Aberdeen.
48 Williamson, W.; c/o J. Young & Sons, Leicester.
49 Woodward, H. K., ; Halifax.
50 Young, A. E.; c/o H. Hodder & Co., Ltd.,
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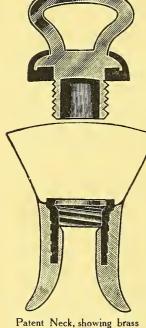
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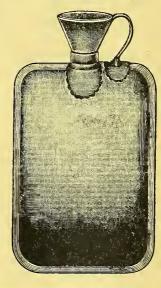
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Patent NON-LEAKING NECK and STOPPER



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1 doz. by weight at **5/10** per lb.

Special Quotations for larger quantities.

socket embedded in rubber, rendering leakage impossible.

Hot Water BOTTLE COVERS

FLEECY (RIPPLE CLOTH). Rose Pink, Pale Blue, Saxe Blue, Slate and Fawn.

Fale Blue, Saxe Blue, Slate and Fawn. 6×8 6×10 6×12 10×8 12×8 14×8 12×10 12×14

Per doz. 8/9 9/- 10/9 11/- 12/- 14/6 14/6 17/-

PLUSH, Blue, Grey, Rose Pink or Scarlet.

 6×8 6×10 6×12 10×8 12×8 14×8 12×10 42×14 Per doz. 13/- 15/- 16/6 16/6 19/- 22/- 22/6 25/-

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Oct. 1st, 1921

No. 520

Four Compelling Reasons for Pushing "Parex" Hot Water Bottles

The "Parex" Hot Water Bottle makes a strong appeal to every Chemist from four points of view.

- 1. Its fixed retail price ensures a generous profit and protection from price-cutting.
- 3. It is the chemist's own proprietary bottle, inasmuch as it is supplied to chemists only. The name "Parex" has an established reputation. When you sell "Parex" goods you benefit by this reputation and protect yourself from outside competition.
- 2. Its carefully considered design and excellence of material and workmanship ensures satisfaction to your customer and relieves you of troublesome complaints.
- 4. The forceful advertising literature provided produces sales without any effort on your part. We illustrate the showcard and leaflet, which are printed in two colours and supplied with all orders.



The Showcard.

| Size | | Wholesale Price | | Minimum etail Price |
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| 6 by 8 | | 4/- | | 5/6 |
| 6 , 10 | | 4/4 | | 5/10 |
| 7 ,, 12 | | 5/2 | | 7/- |
| 8 ,, 10 | | 5/- | | 6/9 |
| 8 "12 | | 5/7 | ••• | 7/6 |
| 8 ,, 14 | | 6/1 | | 8/3 |
| 10 ,, 12 | | 6/4 | | 8/6 |
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| 12 ,, 16 | | 8/6 | | 11/6 |

£5 orders extra 5%

When you sell "Parex" Hot Water Bottles you are helping sales of "Parex" Manicure and Toilet goods —both lines exclusive to the chemist.



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Announcement

DE LUZY

Parfumeur, PARIS,

will, on October 1st, open a London Office and Showrooms at

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Telephone: London Wall 9966.

Telegrams: "Fleurdeluz London."

THIS branch will be under the management of Mr. W. H. CALNAN, who has an intimate knowledge of the trade requirements in this country.

All packings have been greatly improved. New and varied display material has been prepared.

An advertisement campaign is being launched. Everything possible will be done to make DE LUZY a real profit earner for the Chemist.

Before selecting Xmas Perfumery write for latest tariff, or, if possible, visit the DE LUZY Showrooms.

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ANNOUNCEMENT.

By a friendly arrangement, with Messrs. DE LUZY, PARIS, we are relinquishing their agency as from the 30th September, in order that they can directly control the development of their lines.

OUR POLICY remains unchanged; we act as Exclusive Agents for good branded articles and handle only lines that can be thoroughly relied upon.

Leading Agencies:



Paul Poiret's Rosine Luxury Perfumes



Simms' Set-in-Rubber Guaranteed Shaving Brushes



Corbett's Display

Accessories enabling you to economise space, time and goods.

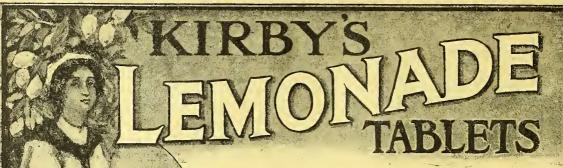
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No sugar required.

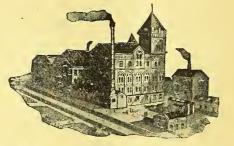
Each bottle contains sufficient tablets to make 12 glasses of Lemonade.

Shall we send you a free Sample bottle?

8/6 per dozen. Retail price 1/-per bottle.

H. & T. KIRBY & Co., Ltd., Newman House, WILLESDEN GREEN, LONDON, N.W.2.

"John



Bull"

MALT EXTRACT

and

Malt Extract and Cod Liver Oil

IS THE BEST!!

Supplied in Bulk, Jars, Cardboard Containers, &c.

MALT EXTRACT POWDER. MALT FLOUR, specially manufactured for INFANTS' and INVALIDS' FOODS,

PAINE & CO. LTD., ST. NEOTS, HUNTS.

Sneezing Time!

A very busy time for the chemist—the transition period of summer to autumn with its searching east winds always brings a big demand for Cold and Influenza remedies. A massed display will make "more business."



CATARRH BALM

An excellent preparation containing Thymol, Menthol, Ol. Pini, Ol. Gaultheria and Paraffin Molle — most useful for cold in the head, influenza, etc. Elegantly packed in collapsible tubes with spécial elongated nozzle, neatly labelled and cartoned. One dozen in handsome show outer.

> - 6/6 Per dozen -

Name and address imprinted on orders of three dozen and upwards. Special Bonus offer of · one dozen with a gross order if an agreement is given to make a window display.



COLD CURE TABLETS

Break up a cold in twenty-four hours—a very popular line, packed in decorated tin boxes.

20's, per dozen, **5/3** Per gross, **60**/-

9/6

,, 111/-

Name and address imprinted on orders for six dozen and upwards.

Please write for specimen packings, which will be sent per return.

£5 orders carriage paid.

AYRTON, SAUNDERS & Co. LTD

Manufacturing Chemists

Hanover Street, LIVERPOOL

Telegrams': "SUNDRIES LIVERPOOL."

MAKE THIS P.A.T.A. LINE YOURS.



"MAKES" THE FLOOR FOR THEM, AND SHOWS OVER 33\frac{1}{3}\% ON TURNOVER.

P.A.T.A. 1/6 size - 12/- per dozen. **TERMS.** 2/6 size - 20/- per dozen. Less $2\frac{1}{2}\%$ discount 1 month.

6-dozen lots (or equivalent) less 5% 1 month.

Carriage paid on 6 dozen (or equivalent).

For Discounts and Carriage amounts 1 dozen 2/6 size is considered equivalent to 2 dozen 1/6 size.

Showcards with each order.



The 1/6 tin is slightly larger than illustration, the 2/6 size being exactly double.

WHOLESALE DISTRIBUTORS:

LONDON—May, Roberts & Co., Ltd.; Francis Newbery & Sons, Ltd.

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BELFAST-Haslett, Ltd.; T. J. May & Co.

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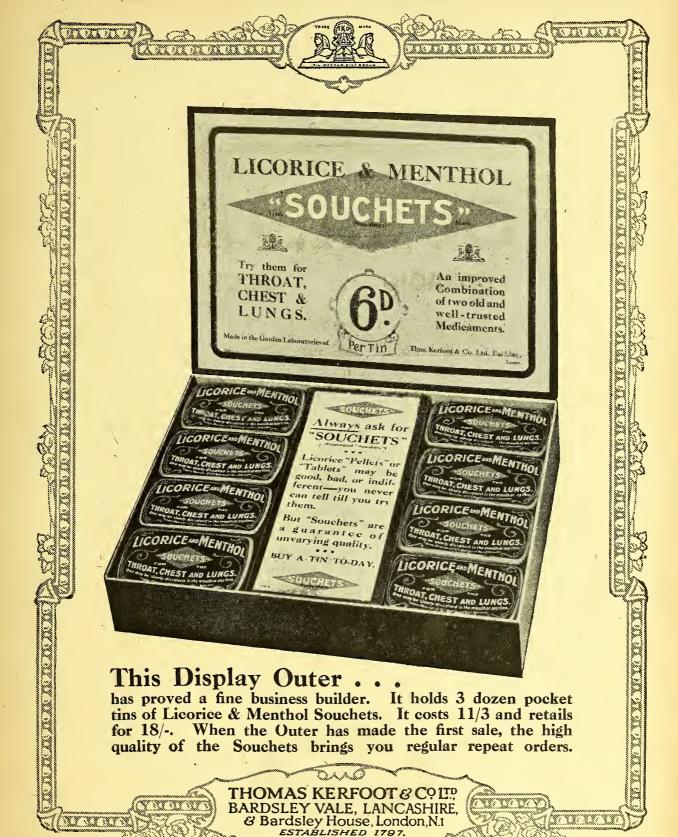
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WM. C. RUDKIN & Co., 44 King William Street, London, E.C. 4.

If in difficulty we can send you a trial lot, carriage paid.

Why not write us for window show terms?

JOHNSTON & ADAMS, Murraygate, DUNDEE.



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WITH A BRAND NAME

"CURASOL"

BORACIC

SOCKS

Because the public are pinning their faith more and more to goods with a "brand" name.

The "brand" is for their protection; Curasol is easy to ask for; Boric, Boracic, and Borax are confusing terms to the lay mind.

"Brand" goods are good goods because it is sheer business suicide to give a good name to a poor article.

Curasol Socks are the very best Boracic Socks obtainable.

Per 4/0 doz.
6 doz. and over 46/0 gross.
Show carton 36 assorted pairs, 12/0.

SOLE



AGENTS.

ASTOUNDING RESPONSE

Our recent offer of N.H.I. quality Gauze met with such ready response that the whole of the available supply at the special low price has now been cleared. A limited quantity of the Hospital quality is still available at the following prices:—

In 6-yard Packets only.

| Dozen - | - | - | re | - | - | 8/- |
|-----------|--------|-------|----------|----------------|-----|------------------|
| 1 gross - | ~ | 6 | - | - | ~ | 7/6 doz. |
| 5 gross - | - | ~ | - " | | ~ | 7 /- doz. |
| Also in | 100-ya | ird F | Roll's a | at 9 /- | per | Roll. |

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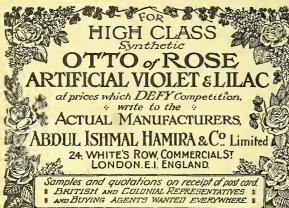
| No. 1, 8 x 6, Infants' - | - | 7 /- doz. |
|---------------------------|---|-------------------|
| No. 2, 10 x 8, Children's | - | 10/- doz. |
| No. 3, 12 x 10, ,, - | ~ | 14 /- doz. |
| No. 4, 15 x 12, Adults' - | - | 17/- doz. |
| No. 5, 19 x 13, ,, - | - | 21 /- doz. |
| No. 6, 21 x 15, Ex. Large | ~ | 25 /- doz. |

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Shipkoff's Pure Otto of Rose

Nature ordained that Otto of Rose should have certain chemical and physical contents. Fakers design rose oils having the same contents, but they are not Otto of Rose.

Shipkoff's Otto of Rose is Nature's Otto. Before placing your contract be sure to get Shipkoff's sample and price, and tryit. Original Sample Coppers in 1, 2 & 4-oz. sizes.

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Highest Awards at all Universal Expositions, including
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Model Steam Factories in Kazanlik, Kalofer, Kerlovo and Rahmenlari. London Depot—

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THE "D & O" BRAND

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BALSAMS of Copaiba, Peru, Tolu, TONKA BEANS, Angosturas.

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UNIFORM DELIVERIES.

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Oil soluble. Blue Shade.

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BSSENCES, SOLIDES and LIQUIDS from flowers. RESINOIDS and POMADES.

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A Line That Sells Itself."



Finest Quality Concentrated Perfumes made from natural flower oils in the following odours:-

PARMA VIOLET LILY OF THE VALLEY WALLFLOWER

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Free from spirit. Supplied in High-Class Rod-Stoppered Hexagon Bottles.

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GLASS BOTTLES for LL TRADES, at CUT



Limes, Kalis, Essences, Panelled and Plain Flats, Ovals, Mexicans, Medicals, Lubins, Poisons, Corn Solvents, Salines, Carlsbad Squares (with and without Stoppers), Mag, Cits. Rounds, Lysol Bottles in fine Amber, Tablet Bottles, Provence Oil Bottles, Fancy Salad Creams, &c. &c.

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Manufacturers of

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MUSK KETONE c.p. 100 %

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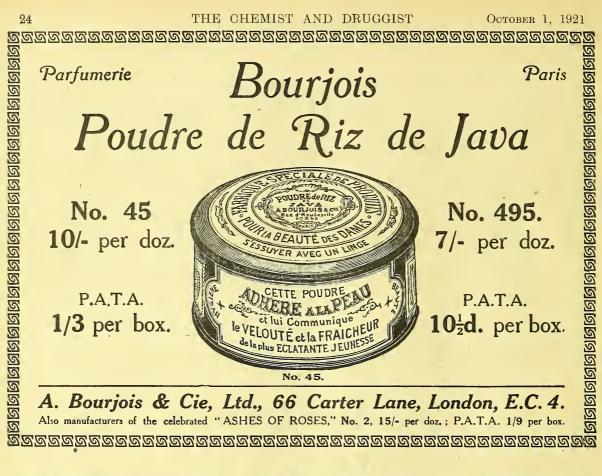
OLEUM-MUSK art.

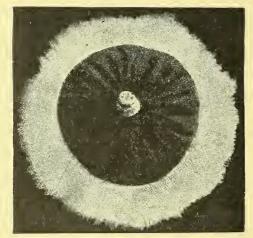
generally regarded as the STANDARD.

Sole Representative for the U.K.:

ALFRED PAUL WHITE, 5 Water Lane,

Gt. Tower Street, LONDON, E.C. 3.





BUSH'S SWAN'S DOWN POWDER PUFFS

make.

Much reduced prices in all departments.

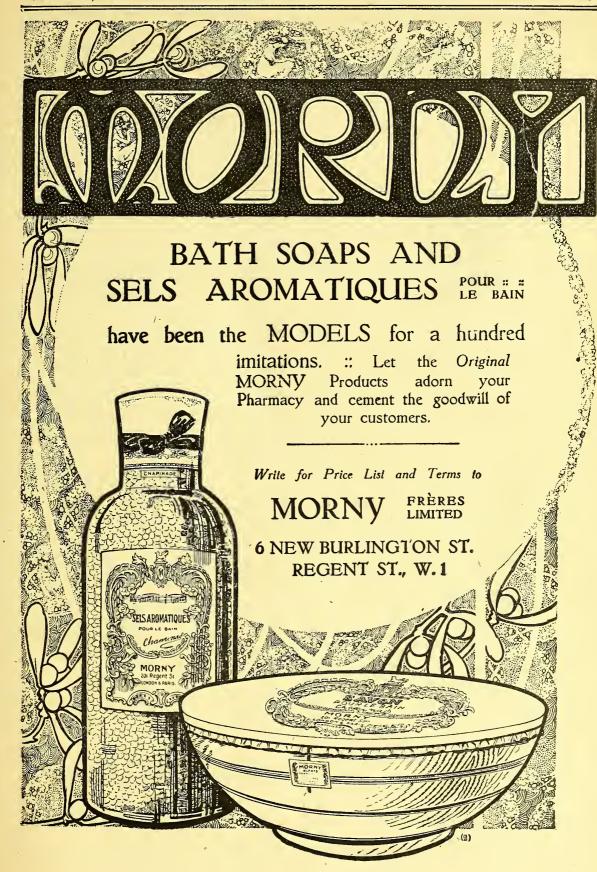
Manufacturers of all kinds of Druggists' Sundries.

SPECIALITIES:

Measures of all descriptions, Syringes, Feeding Bottles, Trusses, Medicine Tumblers, Menthol Cones, Lamp-Blown Glassware.

HENRY W. BUSH & CO. Ltd., Rembrandt Works,

Established 1887. 32, 34, & 34a Commercial Street, London, E.1.



Manicure Preparations



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| | CUTEX |
| E | |
| = | No. P.A.T.A. |
| = | 1. "Cutex" the Ideal Cuticle |
| | Remover, Small 18/- 2/- 2. ,, ,, Large 36/- 4/- |
| | 4. " Nail White 18/- 2/- |
| = | 5. " " Polish Cake, White 18/- 2/- |
| | 6. ,, ,, Pink 18/- 2/- |
| E | 7. , , Trial Size $5/6$ $7\frac{1}{2}$ d· |
| | 22. , Nail Polish Stick, in metal tube 8/9 1/- |
| | 8. " Powder 8/9 1/- |
| Entered Control | 9. " Polishing Paste, Pink 18/- 2/- |
| | 10. " " Plain 18/- 2/- |
| Political Political Political | 11. " Liquid Nail Enamel 22/6 2/6 |
| | 13. , Cuticle Comfort 18/- 2/- 14. , Nail Bleach Powder 18/- 2/- |
| | 15. " " Rouge … 18/- 2/- |
| = | 16. ,, Compact Manicure Set 27/- 3/- |
| | 17. , Travelling , , 84/- 9/6 |
| | 18. "Boudoir " " 168/- 19/- |
| | 31. ,, Cold Cream 18/- 2/- |
| | Hanny C. Owalah Ca |
| E | Henry C. Quelch & Co. |
| | 4 & 5 Ludgate Sq., London, E.C.4 SOLE AGENTS FOR THE |
| | Northam Warren Corporation, Ltd. |
| | Montreal and New York. |
| | K. O'Sullivan, 31 Wicklow Street, Dublin, where a large range of samples may be seen. |
| = | Annual Control of Samples may be seen |

Henry C. Quelch & Co. 4 & 5 Ludgate Sq., London, E.C.4

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Fine Tooth Combs.

8/-10/-12/- per dozen. Glass-fronted Showcase free with 3 dozen Combs, £1.10.0

GREATLY REDUCED PRICES.

The OSBORNE Dressing Comb.

Strong-durable-grailed finish. Ivory White Dressing ... Rake

Black Dressing Or Special Prices Rake ... Carded or Boxed ... for Quantities.

COLOUR-PROOF SPONGE BAGS.

Assorted Art Shades, a Wonderful Seller.

Size 1. 4/6 doz. Size 3. 7/- doz. Size 5. 10/6 doz. ... 2. 5/3 ,, ... 4. 8/6 , ... 6. 12/9 ,, 5% Discount. Cash with Order. Carriage Paid. Monthly accounts opened if desired.

H. J. LEE

Osborne Works, LANCASTER.

We are now manufacturing

Containers & Cases

of various styles in

Imitation Gold

which easily surpasses Aluminium for

BEAUTIFUL APPEARANCE

The Prices are just as attractive.

Our exhibition of these new imitation gold boxes at the Chemists' Exhibition was a great success. A sample will be sent free to any interested wholesaler or manufacturer.

FRANK BUCKLER, Ltd.

CASTLE WORKS.

Mount Pleasant Road, Tottenham, London, N. 17.



Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone." A big vigorous impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. profit to the trade has been arranged.



THE HAIR GROWER Price 2/9

Wholesale:

PER DÖZEN.

Wholesale:

FOR GREY HAIR Price 4/6

GEO. R. SIMS' HAIR RESTORER CO. 5 Great Queen St., Kingsway, LONDON, W.C.2,

REGULAR REPEATS

CLEAR, WELL-PERFUMED, White Opaque Viscose Caps -1½ oz., 45/; 2½ oz., 78/-; 4 oz., 114/- per gross. SEPARATING, 6/- gross extra

LIME CREAM.

GOOD THICK QUALITY, WELL-PERFUMED, White Opaque Viscose \ aps. -3 oz., 48/-; 4 oz., 54/-; 6 oz., 63/-; 8 oz., 84/- per gross.

GOOD SPIRIT PERCENTAGE, FULL BOUQUET, Viscose Caps.—2 oz. tall white flint panels, 51/- per gross.

EMULSIFIED COCOANUT OIL SHAMPOO.

EXCEPTIONALLY GOOD QUALITY—EQUAL TO
ANY AT DOUBLE THE PRICE.—3 oz. Round-, 78/per gross; 4 oz. Panels, Viscose caps, 90/- per gross.

Samples of 1½ oz. Brilliantine, 3 oz. Lime Cream, Bay Rum and 3 oz. Emulsified Cocoanut Oil Shampoo post free upon receipt of P.O. for 2/-,

Terms 7½ % for cash or 5 % monthly approved accounts. Freight paid on £3 orders. Packages Free.

C. A. STOKES & CO. LTD.

No. 11, Eclipsol Works, BRISTOL.

ondon Showrooms: 11 City Press Chambers, 149 Aldersgate Street, E.C. 1



The

HENNA CULT

of Hair Beauty, based on the famous

EVAN - WILLIAMS ORIGINAL

HENNA SHAMPOO

daily extends its boundaries, and is now a subject for popular journalism.

It pays to sell this famous line,

You will find full details of terms and prices in the current issue of "THE SHAMPOO SALESMAN," a copy of which is gladly sent on request.

Be sure to order



Wholesale only:

THE EVAN-WILLIAMS CO., LTD. 18 Ogle Street - LONDON, W. 1.

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

| | | | Price per doz. to Retailer. | Selling Price P.A.T.A. |
|--|---------|-------------|-----------------------------------|------------------------------|
| PILENTA SOAP A complexion soap. | - | • | 10/- | 1/- |
| PROLACTUM | - | - | 10/- | - 1/- |
| For the lips. PARSIDIUM JEI | LLY | - | 10/- | 1/- |
| For wrinkles. ALLACITE of OR | ANG | F | 22/6 | 2/6 |
| A dressing cream. | | SSOM | 22/0 | 2/0 |
| | DLO | 330IM | 0010 | -1- |
| BORANIUM A hair tonic. | • | • | 22/6 | 2/6 |
| SILMERINE Hair curling fluid. | - | - | 22/6 | 2/6 |
| CLEMINITE | | - | 22/6 | 2/6 |
| For a face lotion. | | | 22/6 | Ole |
| For a face tint. | • | • | | 2/6 |
| PERGOL - A deodorant. | • | | 22/6 | 2/6 |
| STALLAX - | • | • 2 | 22/6 | 2/6 |
| For a shampoo. [ETTALINE - | | | 31/6 | 3/6 |
| For clearing the skin. | | | • | |
| PHEMINOL - A depilatory. | - | • | 36/- | 4/- |
| TEKKO PASTE | • | • | 22/6 | 2/6 |
| Camphor cream. MENNALINE | | • | 36/- | 4/- |
| For the eyelashes. MERCOLIZED W | 7 4 37 | | | |
| A face cream. | VAA | - | 31/6 | 3/6 |
| STYMOL - For oily complexions: | and blo | alchende | 36/- | 4/- |
| BARSYDE - | anu bia | - | 22/6 | 2/6 |
| Dandruff eradicator. TAMMALITE | _ | _ | 22/6 | 2/6 |
| For grey or faded hair | | - | | |
| LIQUID PERGOI To check excessive pe | | on locally. | 31/6 | 3/6 |
| BICROLIUM | | • | 22/6 | 2/6 |
| For whitening the han COCONOIDS | . 2DI | | 31/6 | 3/6 |
| For figure development HARAPOSA - | ıt. | | | |
| Nut oil shampoo. | • | - | 22/6 | 2/6 |
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STOCKED BY ALL WHOLESALE HOUSES

COLONIAL DEPOTS AND AGENCIES:

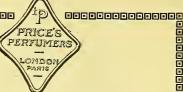
AUSTRALIA:
ALL WHOLESALERS, and
DEARBORN, Ltd., Grace House, Clarence Street, Sydney.

SOUTH AFRICA: LENNON, Ltd. SIVE BROS. & KARNOVSKY, Ltd. (Johannesburg):

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KEMP & CO., Ltd. (Bombay).
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BOUTH AMERICA: DEARBORN, Ltd., Calla Salta 264, Buenos Aires.



About a

Perfume that

is different.

We perfumed our pocket Calendars for 1921 with our new and delightful perfume, "A SUMMER NIGHT," and the public have been asking all about it. We propose perfuming our 1922 Calendars with the same delicious scent. Supplies of these Calendar Cards (with the name of the perfume indicated thereon) will be shortly available.

C Of "A SUMMER NIGHT" we would just say it is a perfume that is different. It is a perfume that suggests "a garden in the gloaming."

May we send you a testing Sample with quotations?



THE NEW TOILET SOAP

THAT ALL THE TRADE IS TALKING ABOUT



DELICIOUSLY PERFUMED.

Wholesale Price, 43/6 gross. Retail price, 4½d. tablet.

(Subject to usual terms.)

PACKED IN ATTRACTIVE 12-TAB. BOXES *

IS MADE ONLY BY





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HE GUM

USE IT AS

DENTIFRICE

Specialist in SEASES OF THE MOUT

DENTAL PROFESSIO

FORHAN'S LI

This incessant volume of Forhan advertising is performing two functions. It is bringing business to your shop, and it is awakening the public to the insidious menace of Pyorrhea. Week in, week out, millions of readers are being told how pyorrhea attacks not only the teeth but the general health; how

only the teeth but the general health; how Forhan's For the Gums prevents pyorrhea if used in time; and checks its progress if the disease has already taken hold.

> You will profit by the inevitable de-Write us mand. to-day for prices and trade information.

Thos. Christy & Co., 4-12 Old Swan Lane, London, E.C. 4.





The Original Solid Eau de Cologne.

The World's Great Perfume and Refresher in Solid Form.

MERIT

FROZOCLONE

The Original Solid Eau de Cologne. Retails (P.A.T.A.) 3/6, giving at least 10d. profit on each sale.

32/- per doz.

For Expart Quantities af nat less than 4 grass a further substantial allowance will be made.

SOLID ENGLISH LAVENDER

Same Style and Prices





The Ideal Fruity Laxative in Pastille Form, DELICIOUS. RELIABLE. EFFECTIVE.
Retail (P.A.T.A.) Minimum 2/3
21/- per doz., stamped.



NAIL **POLISH**

with new and distinctive features. Antiseptic, softens the cuticle, lasting and brilliant polish.

Retails (P.A.T.A.) 1/3 15/- per doz.

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Demuth's Laboratories,

68 Salusbury Road, and Montrose Avenue, LONDON, N.W. 6.

<u>ଅନ୍ତର୍ଭ ଅନ୍ତର୍ଭ ଅନ୍ତର</u>





Sales, Profits, Satisfied Good Duick Customers.

When you stock Silkodono you do so with the assurance of quick and regular sales because it is so well advertised. Whe ever Silkodono is shown there is sure to be a good demand because the pullic are already aware of its value as a Hair Preparation through our many Advertisements and through personal trials of our Free Samples. Silkodono yields you good profits and in addition gives complete satisfaction to your customers so that they come regularly to your establish-

ment for it, which, by the way, gives you an excellent opportunity of selling other lines.

In order to further aid your distribution of Silkedono we supply beautiful Showcards, Dummy Cartons. Booklets and attractive Handbills, printed with your name and address, all free upon request. Take up this profitable line straight away.

Advertised in DAILY MAIL, DAILY MIRROR, DAILY SKETCH, and other important Newspapers, Magazines, Periodicals, etc.

SPECIAL **BONUS OFFER**

1/6 Sie.

2/6 Size.

4/6 Size,

Wholesale 12/- per Dozen.

Wholesale 20/-per Dozen.

Wholesale 36/- per Dozen.

6 Bottles extra with orders 6 Bottles extra with orders for 3 dozen. Net profit for 3 dozen. Net Profit 27/- on outlay of 36/- 45/- on outlay of 60/- 81/- on outlay of 108/-

Send for a FREE

4d. Large Shonpone Sachet, the latest wonderful discovery in Shampoo Powders, different from all others on the market. Beautifully got up in the same characteristic style as SILKODONO and represents equally good value. 2/6 per dozen. 3 extra sachets with orders for 3 dozen.

8-9 Red Lion St., Holborn, London, W.C. 1.

The "CULMAK" SHAVING BRUSH Display Box



(No extra Charge).

Brushes cost

47/-

P.A.T.A. Realise 70/6

AND THE BRUSHES SELL THEMSELVES.

ON THE CHEMIST'S COUNTER THIS SMART DISPLAY ATTRACTS THE CUSTOMER'S ATTENTION.

THE NOVEL, UNORTHODOX APPEARANCE OF THE BRUSH AROUSES HIS CURIOSITY. THE PRICE AND THE MAKER'S WARRANTY ARE ON THE LABEL. GUARANTEED ANTHRAX FREE. HE RISKS NOTHING! HE BUYS ONE!

CHEMISTS! CULMAK CASES CAPTURE CUSTOM.

G. B. KENT & SONS, LTD.

Are known the World over as the Largest Manufacturers of

> EST RITISH RUSHES

Please write for full Particulars to-Farringdon Road, E.C. 1.

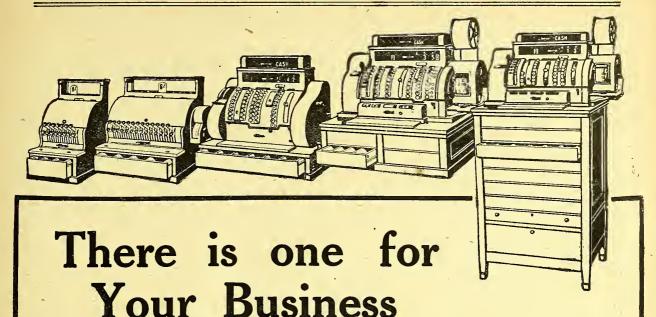
SELF - FIXING HERMETI WASHABLE **BOTTLE CAPS** ARE, -CHEAPEST— and BEST. The VISCOSE Development Co., Ltd. BROMLEY 8: KENT.

NAIL BRUSHES. CLOTHES BRUSHES. SHAVING BRUSHES.

Everything in the way of Brushes.

Telephone: MUSEUM 2111. Telegrams: "AWHILE, WESDO, LONDON."

TITTERTON & HOWARD LTD., 8-10 GT. TITCHFIELD STREET,



MODERN National Cash Registers are built in many sizes, so as to help all shopkeepers. They combine the suggestions of retailers in all trades. They are the result of 37 years' close study of shop systems.

In these days you need any means that will reduce work, worry and expense, and increase profits.

An up-to-date "National" stops leaks and losses. Gives better service to customers, and attracts new ones. Saves detail work. Accurately supplies necessary records. Gives maximum protection. Makes assistants more careful. Gives proprietor complete control.

However large or small your business, there is a modern "National" exactly suited to its needs. It will prove the most valuable assistant you can have.

It will cost you nothing to get more details.

POST THE COUPON TO-DAY

The National Cash Register Company, Ltd. 225 Tottenham Court Rd., London, W.1

Branch Offices in all large towns.

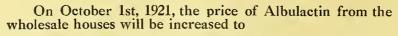
The N.C.R. Co., Ltd., 225 Tottenham Court Road, London, W. 1 COUPON

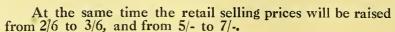
Please send without charge or obligation details of your various models of modern National Cash Registers.

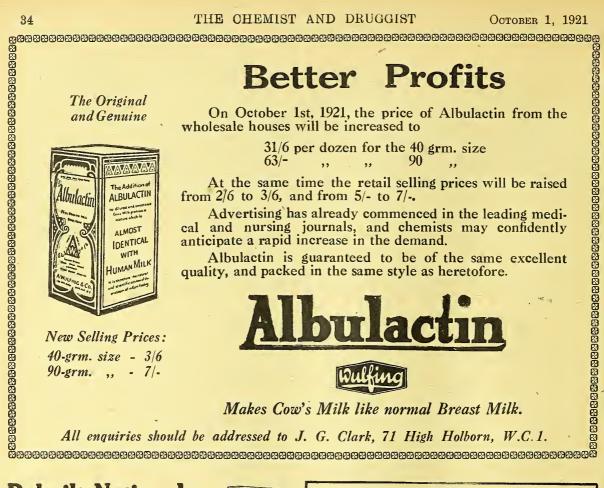
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Address

C. & D.









Rebuilt National Cash Registers



W/E often take back used Cash Regis-

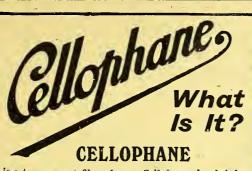
ters in cases where customers are installing larger or more up-to-date machines. These used National Cash Registers

Thoroughly Overhauled and Rebuilt

are sold under the Company's full guarantee at reduced prices.

Write for details of "Nationals" available, Dept. R.1, The National Cash Register Co., Ltd., 225 Tottenham Court Road, London, W.1.





is a transparent film of pure Cellulose, absolutely air, grease, and odour proof, unaffected by cold, heat or moisture, and sterilisable.

An ideal wrapping for Drugs, Tablets, Bath Crystals, Perfumery, Provisions, Sweets, Surgical Dressings, Articles of Toilet, &c. &c.

Will keep your Goods, Boxes, Bottles, and delicate Labels clean on the Counter and in Shop Windows, allowing the Articles to be seen by transparency. Can be had colourless, coloured and embossed.

Also in the shape of Labels for Bottles, and Discs for Creams, Ointments, Boot Polish, &c.

Cello-Dressings-The best substitutes for Gutta Percha and Oiled Silk. Ask for explanatory circular.

Prices, Samples and Particulars from

The CELLOPHANE COMPANY

(LECLERCQ & CHARERAT)

Bolton House, Cullum Street, LONDON, E.C. 3.

DOOMO AIRSHIP FLY BAND



Write for quotations A wide, long band, sticky on both sides.

SMITH & CO., Doomo Works, NEWARK

DIABETIC GLUTEN BREAD

Every Chemist can now supply

"BRUSSON JEUNE"

15 Rolls in a Box. Keeps fresh for months. A High-Class Article worthy of the support of the Trade.

Order through your Wholesale House, write—O. Wells, 1 Manor Road, Brockley, London, S.E.4

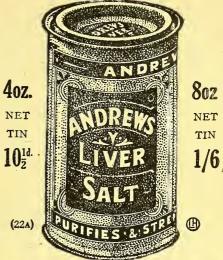


WHOLESALE TERMS

Selling Prices: 3/9, 8/9, 16/9 25/6 per tina

Invoice Prices: 3/6, 8/-, 16/-, 25/-respectively.

B. C. Tipper & Son, The Veterinary Chemical Works, Birmingham.



Apology!

The makers of Andrews' Liver Salt wish to express regret to the Public generally, and to their Trade friends, for unavoidable delays in delivery. At the beginning of this year a large new factory came into operation, more than doubling the output, but in spite of this, orders received up to date have been far in excess of even the increased capabilities.

Further extended equipment and greater production facilities are now well on the way, and it is hoped that within a few weeks the Manufacturers will be able to overtake the demand.

In a very short time there will be plenty of Andrews' for all

Those virtues which have given Andrews' the largest sale in the United Kingdom - if not in the whole World — are sufficient justification for insistence upon the genuine Andrews' Liver Salt, and with ample supplies forthcoming, there is no reason why any regular Andrews' user should go short, or accept a substitute.

Sold by Chemists, Grocers, and Stores throughout Great Britain & Ireland. Trade enquiries should be directed to:

SCOTT and TURNER, Ltd., NEWCASTLE-UPON-TYNE.

To Chemists Everywhere!

Your Andrews' Customers will have read the above advertisement during last week. It appeared in the principal National, District and Local Publications throughout the United Kingdom and, heralding the increased production of Andrews' Liver Salt, will conceivably intensify demand by bringing back those folks who have not been able to obtain Andrews' during the last few weeks.

Our extension facilities are such that we can deal, practically immediately, with normal orders now, and in a few weeks more even heavy orders will find us ready to despatch with the promptitude that characterised the Andrews' working before public appreciation gave it the largest sale in the United Kingdom, if not in the whole World.

Write, stating requirements, to the Manufacturers (address above), or to the Wholesale Distributors for the Greater London area:

J. C. Gambles & Co., 49 Farringdon St., E.C.4

548,800,000 Musterole Messages

Will Appear in Leading Publications This Winter

List of Publications

Daily Mail
Daily Telegraph
Daily Chronicle
Daily Express
Daily Mirror
Daily Sketch
Evening News
Evening Standard
News of the World
Sunday Chronicle
Sunday Post
Sunday Pictorial
Punch
All Sports

Weldon's Ladies

Journal
Chemist & Druggist
Nursing Mirror
Manchester Evening

John Bull

· Chronicle Manchester Evening

Liverpool Echo Liverpool Express Birmingham Mail Newcastle Evening

Chronicle North Eastern Daily

Gazette Yorkshire Evening Post Yorkshire Evening

Leeds Mercury Yorkshire Telegraph and Star

Western Evening Herald THINK what this nation-wide advertising means to your business—more than ten Musterole advertisements to each person in the United Kingdom.

If you could personally tell everybody in your district ten times within the next few months about Musterole, wouldn't you expect record sales? This is what Musterole advertisements are going to do for you. They will create a demand; you can convert this demand into hard cash profits for yourself.

Place your order to-day, and be well prepared to get your share of the business that will follow this huge publicity campaign. Don't give your public a chance to wonder where they can buy Musterole; use your window to tell the public **you** sell Musterole. Musterole window cards, stickers, and other advertising material are available for your use. Write for them.

Order your stock **now** through your usual factor, or direct from

Thos. Christy & Co. 4-12 Old Swan Lane, London, E.C. 4.

Portsmouth Evening News Southampton Southern Daily Echo Bristol Evening Times and Echo South Wales Evening Express South Wales Echo South Wales Daily Post Glasgow Evening Times Edinburgh Evening News Belfast Evening Telegraph Dublin Mail

Make Sure That You Share in the Results

Be Prepared — Stock to Meet the Demand



nesses. Musterole is a faithful rooter-out of colds and congestions. It does all the work of the old-fashioned mustard plaster but is without the fuss, mess or blister. Rub a little of this clean, white ointment over the congested spot. It soon generates a peculiar heat which disperses congestion and inflammation. Lies Musterole for the congested appearance of the congested spot.

a peculiar heat which disperses congestion and unamendation. Use Musterole for rheumatism, neuralgia, lumbago, twinging joints and aching muscles. Keep Musterole handy at home Your chemist



a tor rneumatism throats, Musterole tusterole has all the unustand plaster but Tusterole Musterole is a hister Musterole Is pain ade from oil of mustard.

of Cough Austerole

olds and congestions e used stinging, messy lay you can use Musrk of the old-fashioned iess or blister

white ointment over the r Musterole penetrates uliar heat which soon sends this cold away.



For Lumbago and Rheumatism — Musterole

DRIVE AWAY

Rub Miller's Musterole on Forehead and Temples

Musterole — that clean, white ointment made from pure oil of mustard—ofters as well as colds and congo and rheumatism, on the spot where there is pain or peculiar heat which disperses congestion the virtues of an away. Musterole has all and nurses recommend chemist sells Musterole.

Musterole — that clean, white ointment of mustard—ofters a congestion of the virtues of the oil of time musterole has all and nurses recommend chemist sells Musterole.

Musterole, Your



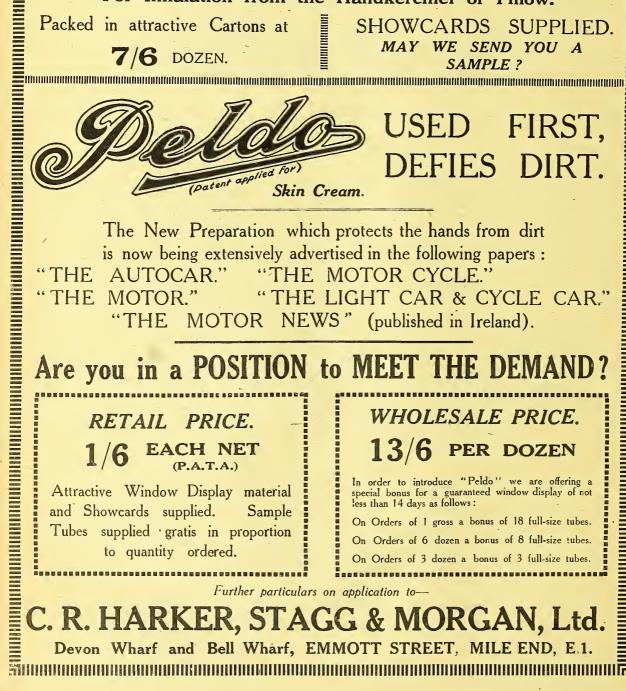
The "Cold Season is approaching

HAVE A NOVEL REMEDY IN

Inhalation from the Handkerchief or Pillow.

Packed in attractive Cartons at

SHOWCARDS SUPPLIED



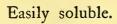


TRADE 6 WELLCOME 9 BRAND Sodium Salicylate

(Physiologically Pure)

B.P. 1914 (FLAKE)

Quotations given for any quantity

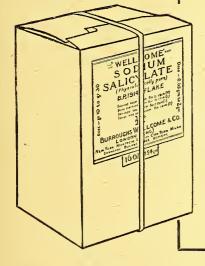


Solution is bright and water-white.

Free from dust-does not require straining.

Flakes do not cake on the scalepan or paper.

Made throughout by B. W. & Co., whose stringent standards vouch for its exceptional purity.



Buy your stock for the winter now



BURROUGHS WELLCOME



THE BRITISH DRUG HOUSES

P.P.P. CHEMICALS

Ready for Retail.

THE undermentioned pharmaceutical chemicals are now issued in packages suited to the retail counter. Each is packed in a substantial and attractive carton bearing full directions for use and also our comprehensive warranty of purity of the contents and of compliance with every requirement of the British Pharmacopæia and of the Food and Drugs Acts, The advantages of retailing these high-class products are self-evident.

| | | | oz. | 2 oz. | 4 oz. |
|----------------------------|---------|-----------|------|-------|-------|
| Magnesium Sulphate, B.D.H. | | per dozen | 9d. | 1/- | 1/6 |
| Needle Crystals | | ,, gross | 8/6 | 11/6 | 17/- |
| Sodium Bicarbonate, B.D.H. | | " dozen | 10d. | 1/1 | 1/8 |
| ži 22 21 | | " gross | 9/6 | 12/6 | 19/- |
| Boric Acid, B.D.H | | "dozen | 1/7 | 2/9 | 5/- |
| Powder | • • • • | " gross | 18/6 | 32/- | 59/- |

A card outer is supplied for each 3 dozen (6 dozen also in the case of 1 oz. size).



Samples will be sent gratis to any pharmacist on request.

22-30, Graham Street, City Road, LONDON, N.I.



A WEEKLY JOURNAL OF PHARMACY AND OF THE CHEMICAL AND DRUG TRADES.

THE CHBMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the Br tish Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists' and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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| | ntents les 2175 Vol. 95 |
|--------------------|----------------------------|
| Bankruptcy Reports | Insurance Committee |

Known, Admitted, and Approved Remedies

Following the practice which we started some years ago we propose to reserve space in the forthcoming issue of The Chemist and Druggist Diary, 1922, for the registration of formulas for "known, admitted, and approved remedies." Under the Medicine Stamp Act, 1812, such medicines, when sold by chemists, are exempt from medicine-stamp duty so long as the formulas are contained in recognised works of reference and proprietary rights are not claimed. A clear indication must be given on the label of the medicine to the published formula as evidence that the medicine is of the kind to which the exemption refers. The Chemist and Druggist Diary was the first book of reference recognised by the Board of Customs and Excise, after the British Pharmacopeia, and the Diary, being published periodically, affords an exceptional opportunity for chemists to add any fresh formulas for medicines coming within the definition of "known, admitted, and approved remedies." Chemists who desire to take advantage of this arrangement should forward true copies of the formulas with the titles and directions for use so that we can include these in the Diary. We shall attach the correct reference numbers to the formulas when they are published. The formulas, which must be written on one side of the paper only, should be sent not later than October 15, addressed to the Editor, C. & D., 42 Cannon Street, London, E.C. 4.

English and Welsh News

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

End of Summer Time

It is officially announced that summer time will cease at 3 A.M. (summer time) on Monday, October 3, the succeeding hour being 2-3 A.M. Greenwich time. Government and railway clocks will be altered accordingly, and employers and others interested are requested by the Government to make the necessary change during the night of Sunday-Monday, October 2-3.

The Week-end Postal Difficulty

During the next few weeks important business organisations are considering resolutions in the direction of exerting pressure on the authorities so as to secure adequate deliveries of letters on Monday mornings. The committee of the London Chamber of Commerce has inquired into the question, and information is being collated from various parts of the country with a view to representations being made to the proper quarters. The Association of Chambers of Commerce will hold its quarterly meeting at Sheffield on October 21, when resolutions dealing with the subject will be brought forward. The Birmingham Chamber of Commerce decided, at its meeting on September 26, to inform the Postmaster-General of the serious delay and financial loss caused by the existing system, and to urge its abolition. The principal complaint made by London business houses against the present system of week-end postage is that it causes stagnation on Monday, with resultant congestion of work on Tuesday. Another body which has been seriously affected by the changes is the Incorporated Society of Retail Distributors, which also will bring to the notice of the authorities the disastrous consequences of the new system.

Reduced Passenger-train Carriage

It is understood that the Federation of British Industries had arranged to bring the question of railway parcels rates to the notice of the Rates Advisory Committee, but that the railway managers have decided to make reductions, as from October 1, without awaiting the result of such action. The following are the scales:

| At (| Comi | oany's Risi | k | At O | vner' | s Ris | k | |
|--------|------|-------------|-------|-------|-------|-------|-----|------|
| | - | Old Rate | | | Old | Rate | New | Rate |
| | | s. d. | s. d. | | 8. | d. | 8. | d. |
| 2 lb. | | 0 11 | 0 9 | 2 lb | 0 | 9 | 0 | 7 |
| 5 lb. | ••• | 1 4 | 1 0 | 5 lb | 1 | 0 | 0 | 9 |
| 8 lb. | ••• | 19 | 1 3 | 8 lb | 1 | 4 | Õ | ΤĬ |
| 11 lb. | ••• | 19 | 1 6 | 11 lb | 1 | 4 | 1 | Z |

Parcel rates to come into force on October 1 on the Brighton and South Coast and the South-Eastern and Chatham lines show a marked reduction for a radius of fifteen miles from London. For instance, a small parcel at company's risk, previously costing 11d., will now be 6d.; for a parcel weighing, say, 100 lb., the charge for conveyance at owner's risk will be reduced from 3s. 1d. to 1s. 10d. Similar cuts are announced by the Metropolitan and London and South-Western companies.

Contracts

The following Government contracts, among others, have been notified:

ADMIRALTY.—Condensed Milk.—Nestlé & Anglo-Swiss Condensed Milk Co. "Medical Comforts."—Brand & Co., Ltd.

War Office.—Petroleum Oil.—Anglo-American Oil Co., Ltd. Soda Crystals.—The United Alkali Co., Ltd. Soft Soap.—Peter Lunt & Co. Zinc Oxide (Lead-free).— Taylor Brothers & Cox, Ltd.

CROWN AGENTS FOR THE COLONIES.—Weighing-machines.—W. & T. Avery, Ltd.

H.M. STATIONERY OFFICE.—Labels.—Fisher, Clarke & Co. Sealing Wax.—Cooper, Dennison & Walkden, Ltd.; J. Goulston.

The following tenders have been accepted by the bodies

Colchester Guardians.-Mr. H. E. Baker, chemist and druggist, drugs and sundries.

Cranbrook Guardians.-Mr. G. H. Moorhouse, chemist and druggist, Hawkhurst, drugs.

Lewes Guardians.—Boots, Ltd., drugs.

Portsmouth Guardians.—Manners & Hopkinson, London, drugs; Arthur Berton, Ltd., dressings.

Richmond (Surrey) Guardians.—Robinson & Sons, Ltd., Chesterfield, surgical dressings.

Romsey Guardians.-Mr. F. Oram, Ph.C., drugs and dressings.

Tadcaster Guardians.-J. H. Hull, chemist and druggist, drugs.

Educational Items

The calendar of the Plymouth and Devonport Technical Schools for the session 1921-22 has just been issued. The secretary to the governing body is Mr. E. Chandler Cook. (See also C. & D., August 20, p. 68.)

The students' handbook of the Woolwich Polytechnic (William Street, London, S.E. 18) for the session 1921-22 has just been issued. It contains particulars of numerous day and evening classes in scientific, technical, and other subjects.

We have received the prospectus of the Norwich Education Authority Technical Institute for the session 1921-22. (See also C. & D., August 20, p. 68.) Communications relating to the Institute should be addressed to the

We have received the prospectus for the session 1921-22 of the Wandsworth Technical Institute. The fees for tuition in science subjects are: For one evening's instruction a week, 10s. a session; for two or more evening's instruction weekly, 15s. a session.

The prospectus of the fourth session (1921-22) of the Carlisle School of Chemistry has just been issued (see C. & D., August 20, p. 67). In addition to preparing students for Part I. of the Qualifying examination, facilities have been provided for those desirous of obtaining a more complete acquaintance with chemical analysis.

From a leaflet sent out with the prospectus of the Cardiff Technical College we learn that a course for the Major examination is under consideration. Students com-mencing their apprenticeship are advised by the College authorities to take a higher examination than that usually taken as the preliminary one. The director of education is Mr. John J. Jackson, B.A.

Assessment Grievances

The Bradford Chamber of Trade sent a deputation to the local assessment committee on September 16, to ask the basis of the new assessments. The deputation contended that the committee seemed to have departed from the generally accepted basis of calculation on rental, and suggested that where rent had been increased it might be taken that that was the maximum market valuation. Cases were mentioned, among others, of an increase in rent to 811., with an increase in assessment to 1501.; an increase in rent from 80l. to 100l., and in assessment from 68l. to 115l.; and an increase in rent from 10l. 8s. to 15l. 12s., and in assessment from 8l. 15s. to 18l. 10s. The deputation asked what authority the valuer of the assessment committee had to fix assessments for a number of years ahead; and, where this had been done, whether it was in order afterwards to break the arrangement and increase the assessment. The chairman of the committee expressed the opinion that the valuer had no such power. Replying to other points, the chairman said it was almost impossible to lay down a hard-and-fast line, particularly in the centre of the city, and each case had to be taken on its merits. Where a tenant had been compelled to pay an exorbitant increase in rent to retain possession, the committee had not taken rental as a fair basis, and had sought to establish what they considered a reasonable figure.

Radium from Czechoslovakia

An agreement has been made between the Imperial and Foreign Corporation, Ltd., London, and the Government of Czechoslovakia for a monopoly by the Corporation in respect of the entire output of the State mines at Joachimstal—practically the only ones of their kind in Europe—for a long period. The output is estimated at four grams of radium a year, and half of this will befour grams of radium a year, and nail of this will belong to the Corporation. The market value is given as 35,000l, a gram. The value of the gram with which Mme. Curie was presented in America last May was said to be "about 80,000l." Professor Soddy arrived in London from Czechoslovakia on September 25, bringing two grams, which he deposited at the Foreign Office-for safety, it is said. The radium was conveyed in nine glass tubes, duly packed in a box surrounded with lead. The way in which the lay Press gloats over the packing was effectively satirised in a recent issue of "Le Ripe" which has a cautoon showing a put Rire," which has a cartoon showing a small army of workmen dragging into a laboratory a packing-case as large as a good-sized hut. "What have you there?" asks the startled scientist in charge of the laboratory; and the answer is, "A gram of radium."

Fires

The following outbreaks of fire have been recorded since

our last report (see also "Portsmouth"):
Premises cocupied by W. J. Bush & Co., Ltd., manufacturing chemists, and Peall, Roy & Co., Ltd., gum merchants, Ash Grove, Hackney, London, E. 8, were involved in an outbreak of fire which was caused, on September 24, by a spark from a locomotive. Slight damage only is reported.

Damage estimated at 80,000l. was caused by an outbreak of fire at the works of Gerard Bros., Ltd., soap manufacturers and glycerin refiners, Nottingham, on September 27. The fire, which originated behind one of the boiling-pans, was not subdued until the greater portion of the building had been destroyed.

Birmingham

A local pharmacist who applied three years ago for one of the City Council's houses is now in possession.

Eight members of council are to be elected at the annual meeting of the Birmingham Pharmaceutical Association on October 12.

Councillor George Cadbury, jun., has given 500l. to form a fund for providing apple trees for the gardens of new houses erected by the Birmingham corporation.

The number of aspirants to the medical degrees granted by Birmingham University does not appear to have been lessened by the announcement that the profession is becoming overcrowded.

The keen interest taken in photography was demonstrated by the number attending the first annual meeting of the East Birmingham Photographic Society, held during the present week.

Dr. W. A. Loxton, whose death while bathing was recently announced, was President of the Birmingham Medical Association and well known to local pharmacists. He was an authority on skin diseases.

Liverpool

Mr. Henry Peet, M.A., has taken a brief holiday in North Wales.

It is understood that a Birkenhead branch pharmacy has changed hands

Business generally is quiet. Wholesalers report a fair home trade, but export business is very slow in reviving.
Increasing use is being made of the sliding-letter win-

dow tablets, and some witty lines are displayed, especially as regards dental creams.

Mr. George F. Sleggs. B.Sc., eldest son of Mr. G. M. Sleggs, chemist and druggist, Everton, has been appointed assistant-professor of biology at Dalhousie University, Nova Scotia.

Lord Blyth's proposal to fight for the revival of the penny post awakens sympathy among Liverpool pharmacists, who suffer as much as, if not more than, most tradesmen from present postal exactions.

Portsmouth

The score made by Alderman F. G. Foster, chemist and dentist, in a friendly controversy with the Portsmouth "Evening News" has created amusement and satisfaction among his colleagues.

An outbreak of fire occurred at the Chandos Street establishment of Timothy White Co., Ltd., on September 20. The premises chiefly concerned were the acid and ether stores, which were gutted. A neighbouring dyeworks was damaged by fire and water.

Considerable interest is evinced by members in the affairs of the local Association. An elaborate programme is believed to have been arranged for this session on the initiative of Mr. A. B. Sparrow, the President; and Mr. F. H. Ruoff, the secretary, seems to be ubiquitous.

Mr. J. W. Rogers, chemist and druggist, Osborne Road and Milton, has purchased the pharmacy of Mr. Richard Trist, Ph.C., Albert Road, Southsea. Extensive alterations are being carried out. Mr. Trist, who is retiring, will reside at Rowland's Castle. "A kind-hearted man of firm principle," writes a correspondent, "he has conscientiously served in the capacity of chemist and dentist a good-class Southsea clientèle for a third of a century.

Scarborough

The Townsmen's Association instituted a carnival week from September 19 to September 24, and during this period gave prizes for the best display at private and business premises. Whitfield & Son, chemists, secured the first prize for the best daylight display.

Deep sympathy is felt for Miss Ada M. Hill, Ph.C. who, as recorded on p. 53 of this issue, has suffered a bereavement. Miss Hill had been associated with her father in business for nearly twenty years past, and was the first lady in the town to become a pharmacist. (See C. & D., I., 1921, p. 720.)

Sheffield

Boots, Ltd., are offering free samples of soaps, per-

fumes, etc., to their customers at various branches.

The many friends of Mr. J. H. Suttle will regret to learn of the untimely death of both Mr. Suttle and his wife.

and Mrs. H. H. Greenfield, Hunter's Bar Mr. Pharmacy, have returned from a three weeks' tour in France and Switzerland.

Mr. J. H. Meadowcroft, Ph.C., Woodseats, has taken Mr. G. F. Jones, Ph.C., into partnership. Mr. Jones served his apprenticeship with G. W. T. Newsholme, Mr. Jones Ltd., and afterwards was on active service in France.

The efforts to obtain a larger proportion of pharmacists' representatives on Insurance Committees have resulted in the Ministry of Health deciding that not more than one pharmacist to every four medical men can be allowed.

Miscellaneous

Burglary Charge.—At Swansea Police Court, recently, Horace Roots, tram driver, and John Nash, motor driver, were committed for trial on a charge of burglary from the shop of Mr. A. D. Matthews, chemist and druggist, Oxford Street, the value of the goods and money taken being given as 16l. 18s.

P.D. Social Club.—Members and friends of Parke, Davis & Co.'s Social Club took part in a successful dance held on September 21, in the dining-hall attached to the Hounslow laboratories. More than 400 were present, of whom over 100 were on the Beak Street staff. These visitors were conveyed from the railway station to the hall by motors, in charge of Mr. R. McKinlay, head of the

by motors, in charge of an arrange of the firm's motor transport.

Dental Decay.—The Medical Research Council, in consultation with the Ministry of Health, have appointed to the investigation of the the following committee for the investigation of the causes of dental decay: Professor W. D. Halliburton, M.D., F.R.S. (chairman), Norman G. Bennett, M.B., Leonard Colebrook, M.B., J. M. Hamill, O.B.E., M.D., Sir Arthur Keith, M.D., F.R.S., Mrs. Edward Mellanby, J. Howard Mummery, C.B.E., M.R.C.S., and C. J. Thomas, M.B. Dr. J. M. Hamill will act as secretary to the committee.

to the committee.

PROFIT-SHARING SCHEMES .- "The Labour Gazette" for September reports the existence at the end of last year of 151 profit-sharing schemes, nine of which were classified as belonging to "chemicals, soap, oil, paint, etc. (manufacture)." The number of employees participating in these nine schemes is given as 8,207, and the average bonus per head as 36l. 11s. 11d. It is explained that this rate, the highest in the list, is largely occasioned by the distribution by one firm of more than 250,000l. as bonus during the year.

Benzol Research Committee.—A joint research committee has been formed by the National Benzol Association and the University of Leeds for the purpose of taking over the direction of research in the extraction and utilisaover the direction of research in the extraction and diminstration of benzol and similar products in this country. The committee, as at present constituted, consists of Professor J. W. Cobb, Professor J. B. Cohen, Professor A. G. Perkin, Professor G. Poole, Professor A. Smithells, Mr. W. G. Adam, Dr. T. H. Butler, Mr. S. Henshaw, Mr. S. A. Sadler, and Dr. E. W. Smith.

WAGES IN THE AËRATED WATERS TRADE.—The Ministry of Labour announces that at a recent meeting of the Aërated Waters Trade Board (England and Wales) it was resolved to issue the proposed reductions of the present minimum rates of wages applicable to male and female workers in the trade. Male adult workers, whose minimum on a forty-seven hours' week was 61s., will now receive 58s. for a forty-eight hours' week. For female workers of eighteen years of age and over whose minimum on a forty-seven hours' week was 338. 6d., the rate will now be 31s. for a forty-eight hours' week.

LONDON CHEMISTS' GOLFING SOCIETY .- An open meeting of the London Chemists' Golfing Society was held at Enfield on September 22. The competition was for Mr. T. Edward Lescher's prize-Mr. Lescher is the President of the Club—and resulted as follows:

G. F. Deeth (winner) 86-10 = 76
M. Carmichael ... 87 - 8 = 79
W. Main ... 90-10 = 80
H. Marshall ... 96-16 = 80
C. Macdonald ... 85 - 4 = 81
R. Morrison ... 95-14 = 81
W. Attwood ... 95-14 = 81 ... 100 - 18 H. Bartlett ... 100 - 18 = 83
F. Epps 100 - 16 = 84
H. Bartlett ... 102 - 18 = 86
H. Ingram Royle 105 - 18 = 87 ... 101 - 18 = 83 ... 100 - 16 = 84 ... 100 - 4 = 86 ... 102 - 18 = 86

NATIONAL CHAMBER OF TRADE.—At the annual meeting of the council of the National Chamber of Trade, held at Burnley on September 27, a resolution was adopted, after some forcible speeches had been made, protesting against Government trading of every kind. Regret was expressed that the committee set up to inquire into the working of Trade Boards is not of a more representative character. Other resolutions were passed protesting against the exemption of co-operative societies from the corporation profits duty; urging an inquiry into the inci-dence of local rating by public authorities; and calling for an early reduction in postal charges, and the restoration of the Sunday post.

COLLIER'S DENTAL STUDIES .- In Bolton County Court, recently, Richard Barlow, collier, Lostock, claimed the return of 50. paid to William Milner, Horwich, described as a dental practitioner. Barlow said that Milner promised to give him a complete dental course, mechanical and surgical, for 50l. Plaintiff agreed, and attended several evenings a week for tuition. In July, however, he concluded that defendant was not carrying out the agreement. Milner contended that he and his assistant had given instruction on all matters, although he had not allowed plaintiff to do extractions. The judge was satisfied that defendant had been ready and willing to give instruction, and added that the new Dentists Act had something to do with plaintiff's action, Judgment was given for the defendant.

THE FRENCH SOCIETY OF INDUSTRIAL CHEMISTRY WILL hold a congress at the Conservatoire des Arts et Métiers, Paris, on October 9, 10, and 11. There will be thirty-four sections. The Chemical Exhibition, to be held at the Conservatoire in connection with the above congress, will be open from October 7 to 16, but will be confined to laboratory apparatus and dyes.

Irish News

Brevities

Mr. T. McMullan, M.P. (Thomas McMullan & Co., wholesale druggists, Belfast), gave his maiden speech in the Northern Parliament of Ireland on September 23, when he spoke on economy and public expenditure.

Mr. Huston Lancashire, J.P., Ph.C., Ballymena, does not intend to seek re-election at the annual election to the Council of the Pharmaceutical Society of Ireland. Mr. A. Wilson, Ph.C., Albertbridge Road, Belfast, a member of the Committee of the North Irish Pharmacists' Association, the Ulster Retail Drug Trade Association, and the Employers' Federation, is coming forward in his place. Mr. S. Suffern, R.D., Shankhill Road, Belfast, an ex-President of the Chemists' and Druggists' Society of Ireland, who was co-opted on the death of Mr. T. N. Moffitt, Belfast, is defending his seat. Mr. W. J. Hardy, Ph.C., Belfast, also offers himself for re-election.

Methylated-spirit Drinking

Prevalence of methylated-spirit drinking was referred to at Donegal Police Court on September 15, when it was alleged that several defendants who were charged with drunkenness were addicted to the habit. The chairman said methylated spirit is known absolutely to destroy any thing that comes in contact with it, and instructed the head constable to warn vendors of methylated spirit that it would be serious for them to sell it to people who bought it for the purpose of drinking.—At Greyabbey (co. Down) Petty Sessions, on the hearing of a drunkenness case, the police stated the defendant had been drinking methylated spirit obtained from a local abouring ing methylated spirit obtained from a local chemist. The stipendiary instructed the police, if the chemist repeated the sale to such persons, to report it to the Excise authorities and the Chemists' Association, and the licence to sell would probably be withdrawn. Defendant was sent to gaol for a month.

Scottish News

W. & T. Avery, Ltd., weighing-machine manufacturers, Smethwick, have opened a repair depot in Kirkcaldy.

"The Dangerous Drugs Act has got to go," says a medical man who was formerly a pharmacist. Chemists in business are doubtful whether the irksomeness of the Act will not defeat its object.

The markets committee of the Scottish Beekeepers' Association is of opinion that the wholesale price of heather honey, in sections or jars, should be at least 3s. per lb. (see also C. & D., August 6, p. 41).

Addressing the Incorporated Sanitary Association of Scotland, at its annual meeting lately held here, on the need for consolidating the law relating to the sale of food and drugs, Dr. J. F. Tocher, Ph.C., said there was now very little evidence of adulteration of food with substances injurious or dangerous to health, but the offence of selling an article which was not of the nature, substance, and quality demanded was of more frequent occurrence. It seemed to be necessary from the administration standpoint, from the standpoint of the producer, and in the public interest that there should be a separate Act dealing with the production, distribution, and sale of milk. The Sale of Food and Drugs Bill (1914) should form a good basis for discussion. It would be a mistake to insert elaborate details bearing on adulteration in any consolidating Act. The Scottish Board of Health and the Board of Agriculture should be empowered to make suitable regulations.

Edinburgh

Pharmacy United football team was defeated by the City Police, on September 21, by four goals to nil.

Mr. G. F. Merson, F.C.S., F.R.S.E., Ph.C., chairman of directors of G. F. Merson, Ltd., manufacturing

chemists, St. John's Hill, has been appointed general manager, in succession to Mr. J. G. Robertson, who has left the company.

An explosion, from an unknown cause, at the works of T. & H. Smith, Ltd., manufacturing chemists, on September 27, resulted in one man, James Young, being killed, and a man named Simpson being severely burned. The men were engaged in the morphia department at Gorgie. The damage is estimated at 1,000l.

Edinburgh Chemists' Golf Club recently held a competition for the Mackay trophy over Bruntsfield course, with the following results: (1) Mr. A. C. Baxter, (2) Mr. A. F. Dawson, (3) Messrs. J. W. Brown and J. Manson (tie). The next outing will be over Mortonhall course, on October 12. Intending competitors should be considered. ber 12. Intending competitors should communicate with Mr. J. Finlay, 302 Morningside Road, not later than October 8, as the number of entrants is restricted.

Glasgow

A capital collection of photographs, professional and amateur, was on view at the Ideal Homes Exhibition in Kelvin Hall.

The tenth annual conference of the British Commercial Gas Association was held here on September 27 and 28. In his presidential address, Mr. D. Milne Watson, M.A., LL.B., reviewed the work of the Association since its inception, and, on the authority of the late Lord Moulton, claimed that the industry had saved the nation from defeat in the early months of the war. Among the subjects discussed were the Industrial Uses of Coal Gas and Gas in Relation to Hygiene and Smoke Abatement.

Coming Events

This section of the "C. & D." is reserved for advance notices of meetings or other events. These should he received by Wednesday of the week hefore the meetings, etc., occur.

Monday, October 3

London Medical Exhibition, Central Hall, Princes Street, London, S.W., from 12 noon to 6.30 p.m. Concluding date, October 7.

Wednesday, October 5

Pharmaceutical Society of Great Britain, 17 Bloomsbury Square,
London, W.C., at 11 a.m., Council meeting. At 3 p.m., opening
of the session of the School of Pharmacy. Inaugural address
by Lieut.-Colonel Sir David Prain, F.R.S.

Liverpool Chemists' Association, Britannic Rooms, Cunard Buildings, at 6.45 p.m. Whist-drive and dance. Tickets (5s. 6d.
each) from Mr. J. L. Hirst, 23 Eastfield Drive. Evening dress
optional

Thursday, October 6

Chemical Society, Burlington House, Piccadilly, London, W., at 8 r.m. Meeting at which five papers will be presented.

London (Western) Pharmacists' Association, Pinoli's Restaurant, Wardour Street, London, W., at 7 r.m. for 7.30 r.m. Annual reunion, followed by supper, whist-drive, and music. Tickets (6s. each) from the secretaries and members of the Committee.

(6s. each) from the secretaries and members of the Committee.

West Midland Federation of Pharmaceutical Associations, Masonio
Rooms, Leamington, at 3.15 p.m. Mr. E. T. Neathercoat
(President of the Pharmaceutical Society) will give an address.
The Warwickshire Association is providing tea. A luncheon
will take place at the Regent Hotel at 1.15 p.m. Tickets (4s.
each) from Mr. C. Davis, 90 Warwick Street, Leamington Spa.
The Federation annual meeting will be held at 2.15 p.m.

Friday, October 7

Society of Chemical Industry, Connaught Rooms, Great Queen Street, London, W.C., at 7.30 p.m. Annual dinner. Tickets (12s. 6d. each) from the Secretary. Evening dress.

Saturday, October 8

The London Association of Country Commercial Travellers, Caxton Hall, Westminster, London, S.W., at 7 p.m. for 7.30 p.m. Annual concert in aid of the Royal Commercial Travellers' Schools and the Commercial Travellers' Benevolent Institution. Tickets (3s. 6d. and 2s. 6d. each, exclusive of tax) from officers and Committee. Secretary, Mr. A. E. Wheeler, 66 Inverness Avenue, Westcliff-on-Sea.

JAVA COCAINE FACTORY .- It is reported that a meeting was held on August 15 at the offices of the firm of Geo. Wehry in connection with the possible liquidation of the Java cocaine factory. The firm of Geo. Wehry is unwilling to continue the direction of the Java cocaine factory as several trials failed to yield results. The shareholders of the factory are not inclined to proceed to a liquidation, and therefore it was decided to find another directorate.

Cocaine Cases

AT Bow Street Police Court, London, recently, Joseph Weinglass, pugilist, was sentenced to six months' hard labour, and was ordered to pay a fine of 200l. or be imprisoned for another three months, for being in unlawful possession of cocaine; and Dorothy Hosias, charged at the same time with a similar offence, was sentenced to a month's imprisonment.

At Marlborough Street Police Court, on September 27, Mr. Arthur Lambirth Burton, chemist and druggist, Mr. Arthur Lambirth Burton, chemist and druggist, 648 Mile End Road, E. 3, was summoned for unlawfully supplying to Doris Burton (his daughter) cocaine, such supply not being either to, or for, an authorised person. Mr. Travers Humphreys prosecuted on behalf of the Commissioner of Police; Mr. Walter Frampton (instructed by Neve, Beck & Kirby) was the defending counsel. Mr. Travers Humphreys said there were five summonses in this case against the defendant, but Mr. Frampton had intimated that Mr. Burton pleaded guilty to two and intimated that Mr. Burton pleaded guilty to two, and these two would be quite sufficient for the purposes of the prosecution—the first and last of the summonses. The prosecution in this case was really instituted for the purpose of obtaining the magistrate's decision (and, if necessary, the decision of the High Court) upon a question of law which might arise, and the question was whether in a prosecution under Section 40s (Defence of the Realm Regulations Consolidated Act) it was necessary to prove mens rea upon the part of the defendant or whether mens rea was a material matter at all. But there was no necessity to prove mens rea in this case. He did not think the defendant would have pleaded guilty if he understood that it meant that he admitted having intentionally done wrong. The present case arose out of a prosecution at Marlborough Street Police Court. After recapitulating the circumstances of that case (fully reported in the C. & D., July 9, p. 43), counsel went on to say that there were certain matters which were very much in favour of defendant. One was that the girl was his daughter, and he himself undoubtedly a most respectable chemist, of thirty years' standing. Apparently these were the only occasions upon which defendant had dealt in cocaine. Defendant quite frankly produced his register to the police officer, and that showed that the only transactions he had in cocaine had reference to supplies for this "specialist" as a result of orders which were brought this "specialist" as a result of orders which were prought to him by his daughter. It seemed to be a myth invented by this daughter of the defendant, and he (Mr. Humphreys) was prepared to accept the view that the girl acted in this way to deceive her father. There had been doubts raised as to whether it was or was not an offence to offer to supply cocaine to any person. But though these Regulations were now dead they had been revivified in the Dangerous Drugs Act. 1920. The prosecution in the Dangerous Drugs Act, 1920. The prosecution suggested a pecuniary penalty. Mr. Frampton, for the defence, said the defendant's daughter informed her parents that she had engagements at concerts, and in connection with these engagements she had met a "gentleman named Von Shäler, a German doctor who had worked in connection with two hospitals." She brought her father written orders not only for cocaine, but for other things, including extract of meat and aspirin. Defendant accepted his daughter's statement. He had never received a farthing, and in each case where he supplied cocaine he had properly registered it. The cocaine was not supplied by defendant to the daughter in the bottle found on her, and she must herself have doctored it in some way or other. It was pure when supplied by defendant, who honestly believed his daughter, whose real character he did not know until he came to the police court and heard the evidence. The magistrate said that the defendant had shown great carelessness, and imposed fines amounting to 40l., with 10l. 10s. costs.

THE PROFITEERING ACT proved that chemists' high profits are a myth, and yet a writer in the "Sunday Illustrated" repeats the old fictions that a chemist obtains "from two hundred to four hundred per cent. profit on the actual cost" and that "a chemist's shop is a gold mine."

Poisonings

The following cases of fatal poisoning have been recorded since our last report:

At Brixton, Jane A. Higgs, the wife of a plasterer, committed suicide by taking spirit of salt while of unsound mind.

At Herne Hill, London, S.E., John Humphrey, a jobbing gardener, committed suicide by taking carbolic acid while of unsound mind.

At Hammersmith, Winifred M. Bolton, the wife of a major at present in Egypt, took four or five compressed tablets containing a poisonous salt of mercury in the dark in mistake for calomel tablets, and died after lingering for some days. Dr. Spilsbury certified that death was due to syncope from acute mercurial poisoning, and at the inquest on September 28 a "Misadventure" verdict was returned.

An inquest was held at Swaffham Prior, on September 26, on the body of Alec Aldhous, who assisted his father in a veterinary business. The evidence showed that the deceased, who twelve months ago had taken an overdose of chlorodyne, was found dead in his bedroom on September 25. Dr. O. R. Ennion deposed that death was due to poisoning by hydrocyanic acid. The Coroner: Do you think he was in such pain that he would require to take that acid?—A "vet." is, after all, a bit of a doctor, and his father may have occasionally used a diluted solution for horses, and he might have taken it. This was double the B.P. strength, and fifteen drops would be enough to kill him. If he was pouring out a little to ease his pain it would be very easy to make a mistake. An open verdict was recorded.

The Worcestershire coroner held an inquest, on September 24, on the body of George F. Bokenham, the fourth patient who had died as the result of a doctor's error in dispensing glycerin and belladonna for glycerin and cascara at Powick Asylum (C. & D., September 24, p. 45). In the course of the evidence, several questions were asked as to the arrangement of the bottles in the dispensary. Dr. Fenton, medical superintendent, stated that the bottle of belladonna had been in the position occupied in the dispensary for many years. Witness rarely used the dispensary, and he did not remember noticing the bottle. At one time the bottle was locked up. The Coroner: You will take it for granted that if all poison bottles were of a kind that would be recognisable on touch it would be very much safer. Dr. Romer said he knew the bottle of glycerin and belladonna was in the dispensary. No one could have put it away except an officer with a key. If Dr. Jones put it away, someone got the bottle out. "I didn't," added Dr. Romer. Answering Mr. Wood, who appeared for the deceased patient's relatives, Dr. Romer said the bottle of belladonna ought certainly to have been said the bottle of behadonna ought certainly to have been locked up. It was in an absolutely ridiculous place. Have you ever suggested that it should be locked up?—Yes. I have suggested that if I was in charge I should reorganise things, and put things in their proper place. There are about two dozen more bottles of poison that ought to be attended to. Dr. Romer further said that he was constantly acting as senior but he never get the efficient. was constantly acting as senior, but he never got the official was constantly acting as senior, but he never got the ometar position. The coroner asked the witness to whom the suggestion had been made, and received the reply that it had been made to several people. The Coroner: Have you said so to Dr. Fenton?—No, but I did to Dr. Braine-Hartnell, and I began to re-arrange the surgery. I wished to do this, but there was an objection to my re-arranging it. I have from time to time suggested that it should be re-arranged and done properly. Mr., Wood: If you practically had charge, why did you not do so yourself?—I did as far as I was able, but I had no authority to alter the position of the things. I actually did begin to rearrange, but Dr. Braine-Hartnell insisted on things being but be a places examined for sheet for the same. put back in the places occupied for about forty years. O'Flaherty having given evidence similar to that given by him at the previous inquest, the jury found that Bokenham died from pneumonia and heart failure, and that the death was accelerated by the poisoning. They considered that there should be better supervision in the dispensary.

New Companies and Company News

P.C. means Private Company and R.O. Registered Office

HYGIENIC PEROL Co., LTD. (P.C.).—Capital, 5001. Objects: To carry on the business of manufacturers and vendors of essences, vaporisers, liquid soaps, and other chemical products, and to acquire recipes for the manufacture thereof, and sprays, syringes, and other apparatus for diffusing same. R.O.: 44 George Street, Baker Street, London, W. 1.

Anti-pests, Ltd. (176,931). (P.C.).—Capital, 1,500l. Objects: To carry on the business of manufacturers of, and dealers in, pest-destroyers in all its branches. The council of the Incorporated Vermin Repressions Society shall nominate three directors, and the subscribers have the right to appoint five additional directors. R.O.: 44 Bedford Row, London, W.C.

ADOS CHEMICAL Co., LTD. (P.C.).—Capital 2,0001. Objects: To carry on the business of wholesale or retail chemical manufacturers, agents, brokers and dealers, etc. The first directors are: R. Davidson, Willenslea, Crosshill Avenue, Glasgow, merchant; A. C. Maclean, 40 George Street, Shettleston, Glasgow, merchant; A. S. Stevenson, 86 Evelyn Street, Dennistown. R.O.: 135 Wellington Street, Glasgow.

Pastex Dyes, Ltd. (P.C.).—Capital, 20,000l. Objects: To adopt agreements (a) with E. H. Maas and A. J. Willis for the acquisition of the business carried on as "Pastex Co.," and inter alia the trade-mark "Pastex"; (b) with A. J. Willis; (c) with E. B. Davies; and (d) with A. E. Willis, and to carry on the business of manufacturers of and dealers in dyeing materials, chemicals, colours, paint, oil, grease, paper, etc. The directors are:
A. J. Willis, E. B. Davies, and A. E. Willis. R.O.:
Cromwell House, Surrey Street, Strand, London, W.C.

Benson Harries, Ltd.—A meeting of the creditors of this company will be held at 13 Skinner Street, Newport, Mon., on October 10. All known creditors have been paid in full, the notice being given to comply with the Companies Act.

ANGOSTURA BITTERS (DR. J. G. B. SIEGERT & SONS), Ltd.—This company is to be wound up voluntarily, the resolutions having been confirmed at a meeting on September 5. Mr. H. E. Perks, Spencer House, South Place, London, E.C., is liquidator.

GILLARD GORDON, LTD., SYDNEY, N.S.W.—The assets of this company have been purchased by Mr. R. C. Dixson, of the Dixson Trust, Ltd. The principal members of the old staff are retained, and the business is being carried on under the old management. The manufacture of Gumlypta eucalyptus products will be continued, and special attention will be given to B.P. and U.S.P. oils. The field on which so much money has been spent has reached the production stage, and will now be supplying the company with its oil requirements. The old company, excluding stocks of eucalypius oil, spent between 45,000l. and 50,000l. on developments in eucalyptus fields and a factory in Sydney.

BRITISH GLASS INDUSTRIES.—The second report, covering the year ended March 31, 1921, states that during that period the dividends declared by subsidiary and allied companies were limited to 109,563l., owing primarily to the fact that a large portion of the profits earned by the several companies was expended on extension of works and other capital purposes. By reason of this, and owing to the loss sustained at the Canning Town factory (which was only completed during the year) and to interest on loans and overhead charges, the balance-sheet shows a loss of 23,216l. The directors point out that the disappointing trading results of the year were accentuated by the sudden and serious slump in trade which occurred during the latter half of the year under review.

COAL, PEAT, AND OIL, LTD .- The directors announce that they have been able to bring to a completion the negotiations in respect to the patent decoloriser carbon registered under the name of "Declowyte," and the sale of peat moss. With respect to "Declowyte," which is the company's chief article of manufacture at present, an agreement has been entered into with Burt, Boulton & Haywood, Ltd., by which they will take over, from October 1, the manufacture at the company's Earlestown Works, supplying at their own expense the scientific and technical experience required, and undertake, as the company's agents, the sale of the finished product. The company's moor supplies the special quality of raw material required for "Declowyte," and the reserves of peat, of the best qualities, are such as will keep opera-tions going for many years. Digging and stacking has been carried on from the first, so as to get the peat in an air-dried condition, and the stock of all qualities now ready is estimated at about 2,500 tons.

MAGADI SODA Co., Ltd., The tenth ordinary general meeting of the Magadi Soda Co., Ltd., was held on September 26, at Winchester House, E.C. Mr. Samuel Samuel, M.P., who presided, said that, unfortunately, the loss carried to the balance-sheet had increased from 197,731l. in 1919 to 357,058l., made up partly from working expenses, depreciation, and interest on debenture stock. The same conditions prevailed in 1920 as in previous years—that, without trading, they had had to meet heavy expenses, which it had been impossible to reduce as they had been in hopes of starting at any minute. Many times during 1920 they had thought they were on the point of realising their greatest expectations of starting production and shipments, only to find that something upon which they had not reckoned had gone wrong and delayed the consummation of their wishes. The accounts submitted were most depressing, and would undoubtedly give share-holders the impression that the business was in a hopeless condition, but he could assure them that this was not the case. The company had had enormous difficulties to contend with, and they still had some troubles. Notwithstanding all the difficulties, they were already actually producing 1,000 tons of soda ash of the finest quality per week, and, what was more important, they were shipping it and selling it as fast as it could be delivered to the port of Kilindini. A year ago he mentioned that it would be necessary, before they could start shipments, to accumulate a stock, but with their relatively small production they had found this to be an impossibility, as the buyers were so anxious to get the soda. In all the markets to which it had been contributed to the stock of the source of the stock of the stock of the source of the source of the stock of t which it had been sent there were ships always waiting to take it to the buyers. The directors hoped and believed that 1921 would be the last year for which they would

man concluded by moving the adoption of the report and accounts, which motion was carried unanimously.

Youngmans, Ltd., 6 The Traverse, Bury St. Edmunds, chemists.—A meeting of the creditors of this company was held recently at the offices of the Association of Manufacturing Chemists, Kimberley House, Holborn Viaduct, London, E.C. The chair was occupied by Mr. Parkin S. Booth, the liquidator. According to the statement of affairs presented, the liabilities amounted to 854. 6s. 5d., all of which were due to trade creditors. The assets were estimated to realise 861. 1s. 2d., less 154. 17s. 11d. for preferential claims, leaving net assets of 7061. 3s. 3d., or a deficiency of 1481. 3s. 2d. The assets are: Proceeds of sale of business, 8001.; cash in hand, are: Proceeds of sale of business, 800l.; cash in hand, 11l. 1s. 2d.; and book debts, 62l. 7s. 2d., expected to produce 50l. With regard to the liabilities, Mr. Booth pointed out that the preferential claims included amounts totalling 137l. 19s. 10d. in respect of two executions levied prior to his appointment. With regard to the assets, the business has been sold for 800l. The company was registered in May 1915 with a nominal capital of 1,500l., divided into 1,500 shares of 1l. each, and was formed to take over the chemist business carried on by Mr. Youngman, the amount paid for the business being 3721. The first directors were Mr. C. A. Best. Mr. 3721. The first directors were Mr. C. A. Best, Mr. J. R. Burdon, and Mr. O. A. Clark. At this time 600 shares were applied for, duly allotted, and paid for in cash. For some months past several creditors had been pressing the company, and in certain instances executions

have to show a debit balance in the accounts. The Chair-

man concluded by moving the adoption of the report and

had been levied, but the position, he was told, was not known to the directors, and he understood that money was borrowed privately to pay out certain executions. At the beginning of last month two creditors in particular were pressing the company, and the company could not find the required sums to liquidate the amounts due. An extraordinary general meeting of the shareholders was convened and held on August 26, when a resolution was passed appointing him as liquidator of the company. From what he could understand it appeared that a Mr. Hall had had practically complete charge of the company's affairs, and owing to his death it had been impossible to ascertain many points in connection with the company's dealings. After discussing the matter the creditors present unanimously confirmed the appointment of Mr. Booth as liquidator. The following are creditors: Ashton & Parsons, Ltd., 10l.; Allen & Hanburys, Ltd., 14l.; Anglodol, Ltd., 11l.; Bankes, Ashton & Co., 26l.; W. B. Cartwright, Ltd., 22l.; Crosskill & Sons, 26l.; Cupal, Ltd., 34l.; Thos. Christy & Co., 16l.; W. Cooper & Nephews, 52l.; De Witt & Co., Ltd., 10l.; Erasmic Co., Ltd., 10l.; Evans Sons Lescher & Webb, Ltd., 32l.; Edme, Ltd., 15l.; W. Edwards & Sons, 64l.; Edge & Sons, Ltd., 26l.; Thos. Guest & Co., Ltd., 25l.; Harker, Stagg & Morgan, Ltd., 63l.; G. B. Kent & Sons, Ltd., 36l.; Ciebig Standard Wine Co., 11l.; Francis Newbery & Sons, Ltd., 12l.; Pilchers, Ltd., 33l.; A. & F. Pears, Ltd., 11l.; J. Richardson & Co. (Leicester), Ltd., 36l.; Snell & Co., 39l.; Stephen Willson, 20l.

BOOTS AND THE UNITED DRUG Co .- The affairs of this combination are the subject of a leading article in the "Financial Times" (September 27), in the course of which it is stated that "the net sales for the half-year were \$28,409,100, against \$32,896,200, and the gross profit was \$8,858,700, compared with \$11,372,700. After allowing for operating expenses, depreciation, taxes, etc., and taking credit for miscellaneous income the net profit comes out at \$1,191,500, a decrease of \$1,462,500. In the first part of 1920 the company had the benefit of the revenue derived from the British and Canadian branches, since sold to Liggett's International, when control of the Boots Pure Drug Co. and its associated concerns was secured. This revenue has, however, been deducted from the comparative figures mentioned above, so that the showing is put on an all-fours basis. It is not clear whether the income for the past six months includes any return on the holding in Liggett's International; if so, the company would still get in this way the advantages of the British and Canadian connection, greatly supplemented by the inclusion of the Boots organisation. We should think on balance, as miscellaneous income rose from \$36,500 to only \$89,000, that nothing came in during the half-year from Liggett's International. That concern paid no dividend on its common stocks for 1920, and it is this class of share that represents United Drug's interest in the company. So far as we are aware, Liggett's International has made no distribution yet for the current year, and probably what return it secured from Boots did not come to hand in the six months. The Boots Pure Drug balances its accounts to March 31, and we believe did very well last season, but there have been excellent grounds for the pursuit of a conservative policy by the American controlling concern, and exchange for one thing has not encouraged large remittances to the States. The Company may therefore have preferred to leave its earnings from Boots for the time being on this side. Mr. Liggett speaks cheerfully of the future. He thinks a definite change for the better has now occurred, and is of opinion that the gross profit for the current half-year should be equal to that for the corresponding period of 1920. In that case it should approach \$12,000,000. The extra revenue will be needed, for the new bond issue now ranks for return and other charges are heavier. There has fortunately been a considerable retrenchment in liabilities, and plants are returning to normal production. The drug, perfume, and candy factories are back to their usual output, the rubber establishment is now on a paying basis and is having record sales, and the fruit syrup and stationery branches are producing some 30 and 35 per cent. respectively of their customary yields.

Bankruptcy Reports

Re Nagels & Co., chemical merchants, 51 Fenchurch Street, London, E.C. An adjourned meeting of creditors under the receiving order made against this firm was held recently at the London Bankruptcy Court. The Official Receiver said that the last meeting was adjourned for want of a quorum. He was still without any information of the debtor, who had not surrendered to the proceedings, except that he was believed to be in Hamburg. Nothing was known of any assets. Mr. H. B. Mayer, a creditor for 1,200l., said that no one would wish to throw good money after bad, but suggested that steps should be taken to secure the attendance of the debtor, even if they involved the launching of other proceedings. The creditors decided to leave the case in the hands of the Official Receiver. Proofs of debt were lodged by: John Elton & Co., Ltd., 72l.; Wm. Gibson & Co., 37l.; H. A. Walker & Co., 217l.; P. R. McQuic & Son, 149l.; Simon, Son & Co., Ltd., 101l.; H. B. Mayer, 1,200l.

Re Robert Berk & Co. (Robert Berk, trading as), chemical merchant, 10 City Road, London, E.C., and late of 47 Mark Lane and Audrey House, Ely Place, E.C. Debtor, who was adjudged bankrupt on July 5, attended at the London Bankruptcy Court recently for public examination on a statement of affairs showing unsecured liabilities 460l. and assets 10l., apart from book debts of 354l. treated as bad. In answer to Mr. W. P. Bowyer, Senior Official Receiver, the debtor said that for some years before 1914 he was employed by his father, a London chemical merchant. In April of that year he began business on his own account as a chemical merchant at 26 Long Acre, under the style of Robert Burke. He gave up the business in January 1915, and was afterwards employed by a firm of general merchants until September 1916, when he recommenced business as a chemical merchant at Audrey House, Ely Place, under the style of Robert Berk & Co. Under an arrangement with a company whose offices he used the company became entitled to 50 per cent. of his profits and liable for 50 per cent. of his losses. He continued to trade until February 1917, when he was called up for the Army. He was demo-bilised in May 1919, and since then he had been employed by firms of chemical merchants. His present position was due to the fact that he went into the Army and had His present position suddenly to discontinue his business, and to losses by bad debts. In further examination the debtor agreed that he could have paid his debts when he left the Army out of a reversionary interest under his late father's will, but on entering the employ of a firm of chemical merchants he became responsible to them for any loss on business which he introduced. He also overdrew his commission and salary account. In November 1919 he sold his reversionary interest for 680l. He paid 315l. of this amount to his employers and used the balance for his own purposes. The examination was concluded. Creditors include: Bryce & Rumpff (Glasgow), 280l.; Hartley Florey (London), 1801.

Gazette

Bankruptcy Acts

RECEIVING ORDERS AND ADJUDICATIONS.

Moody, W. E., 3 Market Place, Driffield, chemist and mineral-water manufacturer.

Massey, R., 128 Oakwood Court, West Kensington, and M. Winbury, 57 Queensborough Terrace, Hyde Park, lately trading in co-partnership under the style of Massey & Winbury, merchants.

Swiss Sample, Fair.—The fifth Swiss Sample Fair, which was held at Basle last spring, has proved a success. It is estimated that 30,000 buyers' cards were delivered, and persons interested from all the nations of Europe and eight overseas countries visited the Fair, which filled five spacious halls covering 20,000 square metres. The next Fair will be held at Basle from April 22 to May 22, 1922.

Dangerous Drugs Act, 1920

"Dictionary of Difficulties"

We have in preparation a booklet dealing with the many difficulties which chemists and others have met with in understanding the Dangerous Drugs Act and the Dangerous Drugs Act Regulations. The information will be arranged in dictionary form, so that any particular subject can be readily referred to. Much of the matter has appeared in The Chemist and Druggist of recent months, but there will be a good deal of fresh information, as well as an expansion of previously printed paragraphs where experience has shown that further explanation is needed. We think that the amount of information brought together in the "Dictionary" will render it useful to all persons who have to deal with "dangerous" drugs or desire exact particulars about the subject. An announcement regarding the price of the "Dictionary" will be made next week.

Manufacturers of Proprietary Articles

An opportunity occurs for the inclusion of proprietary medicines in the complete list of official and unofficial preparations containing poisons within the meaning either of the Pharmacy Acts or the Dangerous Drugs Act, which will be printed in The Chemist and Druggist Diary, 1922. We shall be glad if manufacturers will favour us with particulars regarding their proprietaries. What is required is an indication of the percentage of scheduled poisons or "dangerous" drugs so that chemists may know what conditions are to be observed in retailing the articles, e.g. whether those of the Dangerous Drugs Act or of Part I. or Part II. of the Poisons Schedule of the Pharmacy Acts. We published information regarding many of these preparations in the C. & D., September 3, p. 48, which will be included in the list. Manufacturers of other proprietary articles will oblige us by promptly sending the information desired. We cannot include particulars received after October 15.

"Safety Limits"

The question of safety limits in dealing with prescriptions for "dangerous" drugs is dealt with in "The Script." A hospital dispenser, who states that he deals with 200,000 prescriptions a year, writes:

The publication of a commentary in The Chemist and Druggist in June last on the limits of dilution set me devising plans suitable for my own dispensary. They are as follows, with my reasons appended:

as follows, with my reasons appended:

Cocain Hyd., 1 in 1,000. I attach no importance to this, as none of my cocaine preparations will come outside the Regulations; 0.1 per cent. is of very little value for our purposes. It can safely be said cocain hyd. in our dispensary, whenever ordered, will be supplied and the Regulations fulfilled.

Regulations fulfilled.

Diamorphin Hyd., 1 in 1,000 is quite a safe one, since all our preparations save one are easily outside, the usual doses being 1/12th or 1/20th gr. in 1 oz. or 1 dr. respectively, and my first safety limit applies 1/12th in 480m=1 in 5,760, and if the patient has it double strength it works out at 1 in 2,880. The 1/20th gr. dose is in linctuses, and works out 1/20×60=1 in 1,200, quite apart from it being one of glycerin, so that no trouble is likely to arise in ordinary prescribing; but the hypodermic injection of 1/12th gr. in 5m is obviously within and is registered according to the Regulations. It is, however, in morphine and opium preparations where difficulties arise, and for the purpose the margin of safety must of necessity be greater, since it involves the dispensing in a routine way; and just as we separate potent poisons from ordinary poisons, so do we find it useful in making our margin greater. 1 in 520 is suggested. as it divides up to 1 in 5 1/5 for a 1 per cent. solution, and is measurable. But in our dispensary we do not go as close. After considering all the pros and cons, we decided to make our safety limit 1 in 600, and 1 in 500 for all the other morphine salts. This is practical dispensing, and all the dispenser is called upon to do is to unaltiply the given dose by the appropriate figure, and if it is less than his bulk quantity ordered it is dispensed without question; if it is greater, it is set aside for verifica-

tion to see whether it is actually within or without. The factors for solutions are:

| Anhydrous mor | ohine | | 16 | 00 |
|----------------|-------|-------|------|------------|
| ,, | ,, | 10% | sol. | 6 0 |
| ,, | ,, | 1% | sol. | 6 |
| ,, | ,, | 0.5% | sol. | 3 |
| 27, | ,, | 0.25% | sol. | 11/2 |
| Morphine salts | | 100/ | 1 in | |
| ,, | | 10 % | sol. | |
| ,, | | 1% | sol. | 5 |
| ,, | | 2/9 | sol. | 21 |
| ,, | | 4/0 | SUI. | 14 |

Thus, if 10m tr. opii is ordered in 1 oz. mixture, the tincture being 1 per cent., we have 10×6=60, and as our final dilution is 480, it is no longer a dangerous drug within the meaning of the Act. But if 40m was ordered in ½ oz. of mixture, we have 40×6=240, which is our limit. A second mind is then brought in to check. It is found to be outside, but if 60m is ordered in ½ oz. we have 60×6=320, and discussion with a second mind will confirm that it comes within the Regulations and the formalities carried out. It will be seen I make no mention of specific gravities, and of a set purpose treat everything as a gravity of 1.00 until my borderline is reached or crossed. There is reason in sticking to lines of simplicity if we are to avoid difficulties, and as they are all small quantities the margin must be reasonably large and clearly defined and extraneous aids avoided if the confidence and concentration of the dispenser is not to be detracted.

Commentary on the Regulations

Authorised Persons

Owing to the complicated system adopted by the Home Office in the Dangerous Drugs Act Regulations, chemists are finding considerable difficulty in deciding what persons they may, under the Regulations, supply with "dangerous" drugs. We do not believe in the policy of declining to sell the drugs referred to, if they may legally be sold, because the public, having been trained to expect to obtain medicines from the chemist, should not be disappointed. The following particulars are given as to the authorised persons, who may require to obtain "dangerous" drugs from the pharmacist. In every case the chemist must make the appropriate record of sale.

MEDICAL MEN.—The term "duly qualified medical practitioner" used in the Regulations applies to all those whose names are given in the current Medical Register issued by the General Medical Council, whether in practice or retired. The Register for 1921, which contains 44,761 names, is published at 11. 18. by Constable & Co., 10 and 12. Orango Street Leicester Square London W.C. 2.

or retired. The Register for 1921, which contains 44,761 names, is published at 1l. 1s. by Constable & Co., 10 and 12 Orange Street, Leicester Square, London, W.C. 2.

Dentists.—The names of registered dentists are contained in the Dentists Register, issued by the General Medical Council and published by Constable & Co. at 3s. 4d. The current Register contains 5,610 names.

Unregistered Dental Practitioners.—By a Home Office authority, issued August 13, "all persons who are bond fide engaged in practising dentistry and were so engaged on July 23, 1916, but are not registered under the Dentists Act, 1878," may purchase preparations containing not more than 1 per cent. of cocaine, adapted for use as local anæsthetics. There is no list available of these persons, but many of them will have their names added to the Dentists Register so soon as the Dentists Act, 1921, comes into force.

Veterinary Surgeons.—The Royal College of Veterinary Surgeons, 10 Red Lion Square, London, W.C. 1, publishes the Register of Veterinary Surgeons (5s.). It contains the names of 3,320 veterinary surgeons.

Unregistered Veterinary Practitioners.—Only those specially licensed may possess "dangerous" drugs. The licence must be produced when purchasing the drugs. The Home Office suggests that usually a licence will not be required, as drugs such as laudanum can be supplied of a strength below the limit fixed in the Dangerous Drugs Act. The Pharmacy Act restrictions as to labelling (Part II. of the Poisons Schedule) must, however, be observed.

HOSPITALS, ETC.—Institutions in which the drugs are dispensed by a medical practitioner or pharmacist may possess the drugs, as also may institutions employing dispensers whose qualifications have been approved by the Minister of Health. The institutions are "any hospital or infirmary, asylum, Poor Law institution or sanatorium supported by any public authority or out of any public funds or by a charity or voluntary subscriptions." The Dangerous Drugs Act Regulations have to be carried out

or the Regulations in the Schedules of a Home Office Order made on August 13 (C. & D., August 27, p. 59).

MIDWIVES.—By a Home Office authority, dated August 13, "certified midwives, who have in accordance with the provisions of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and the other contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902, and 1902 are contents of the Midwives Act, 1902 are contents of notified to the local Supervising Authority their intention to practise," may possess "preparations containing opium." The Midwives Roll is prepared by the Central Midwives Board, and is published by Spottiswoode, Ballantyne & Co. Ltd., 1 New Street Square, London, E.C. 4, at 42s. A Supplement, known as the Provisional Roll for 1921, is sold at 2s. 6d. The Midwives Roll contains 45,884 names and the Provisional Roll 1,430 names, but of these only 21 per cent. are in practice and entitled to obtain "preparations of opium." The Roll indicates the names of practising midwives by a †. The Midwives Acts, 1902 and 1918, do not extend to Scotland and Ireland. By Rule 19:

A midwife must note in her Register of Cases each occasion on which she is under the necessity of administering in any way any drug other than a simple aperient, the name and dose of the drug, and the time and cause of its

administration.

The Register of Cases (1s. 6d.) has a space for the purpose, but, according to the Home Secretary's "authority" under the Dangerous Drugs Act, midwives have to keep a special book for the purpose of recording the administration of "preparations of opium"—another

the administration of "preparations of opium"—another example of an unnecessary book

Public Analysts.—By Regulation 11 (under Section 7) and Regulation 5 (under Section 3) a public analyst may possess and suplpy "dangerous" drugs "so far as is necessary for the practice of his profession or employment." A list of public analysts is published by the Institute of Chemistry, 30 Russell Square, London, W.C. 1 W.C. 1.

SCIENTIFIC LABORATORIES.—Any person in charge of laboratories attached to the following institutions may be in possession of the drugs to which the Act applies:

All universities of Great Britain and Ireland.
All university colleges of Great Britain and Ireland.
All medical schools recognised by any of the licensing bodies specified in Schedule A of the Medical Act, 1858, as amended by any subsequent Act.
The National Proteins of Medical Recognity.

The National Institute of Medical Research.
The School of Pharmacy of the Pharmaceutical Society

of Great Britain

The Royal College of Science for Ireland, Dublin.

MASTER OF SHIPS.—By Regulation 15 masters of ships (not carrying a doctor) may possess the drugs necessary to comply with requirements of the Merchant Shipping Acts. The following are the quantities to be kept on board, and presumably the chemist may only supply quantities needed to bring the amount to these limits:

10 men and boys and under 11 to 20 21 to 40 upwards

Merchant Ships: Tr. chlorof. et morph. co. ... 1 oz.
Tr. opii ... 4 oz. 2 oz. 6 oz. 8 oz. 10 oz. Emergency Scale (for voyages not exceeding 5 days):

Tr. ohlorof. et morph. co. ... $\frac{1}{2}$ oz. $\frac{1}{2}$ irrespective of number of men The list of masters of steamships of the Mercantile

Marine, compiled by Lloyd's, comprises about ten very large volumes.

Skippers of Fishing Vessels.—By a Home Office authority, dated September 13, "the skipper of every British fishing vessel for the time being entered in the Fishing Boats Register, other than vessels exclusively employed in fishing on the coasts of the United Kingdom, may possess tr. chlorof. et morph. co. and tr. opii in the quantities recommended in Board of Trade Handbill (No. 298, January 1912). The quantities given in the "Ship Captains Medical Guide" are as follows: are as follows:

10 and under 11 to 20 upwards For Fishing Vessels (steam trawlers, etc., absent for more than 10 days): Tr. chlorof. et morph. co. ... 1 oz. Tr. opii ... 2 oz. ••• ... 3 oz. 4 oz. For Fishing Vessels (over

15 tons register and not coming under preceding scale): Tr. chlorof, et morph, co. ... 1 oz.
Tr. opii ... 2 oz.

The British Steam, Motor, and Sailing Vessels Register, fishing and otherwise (mostly fishing), is published by Lloyd's. Any of these boats exceeding one hundred tons

will also be found in Lloyd's Register.

FARMERS AND STOCKOWNERS.—By authority, dated August 13, farmers and stockowners who have obtained a police certificate may possess not more than 32 oz. tr. opii. The certificate must be produced by the farmer and each sale be endorsed by the chemist. The Home Office instructions to the police are that certificates shall only be granted to farmers and stockowners. in a large way of business. Other agriculturalists must obtain laudanum diluted so as to bring the strength below the limit of the Dangerous Drugs Act.

OCCUPIERS OF FACTORIES.—By a Home Office authority dated August 13, "the occupier of a factory or workshop to which the Factory and Workshops Act, 1901, applies may purchase cocaine eye-drops containing "not more than one part in 200 of cocaine and not less than one part in 3,000 of mercuric chloride" in castor oil. The main distinction between a factory and a workshop is in the

use of mechanical power in the former.

MEMBERS OF THE PUBLIC for whom the drugs have been prescribed in the manner laid down in the Regulations by a medical practitioner, dentist, or veterinary surgeon, or dispensed by a medical practitioner, veterinary surgeon, "person lawfully keeping open shop for the retailing poisons in accordance with the provisions of the Pharmacy Act, 1868, as amended by the Poisons and Pharmacy Act, 1908."

Messengers.—Persons who are sent for "dangerous" drugs must "produce an authority in writing, signed by the person so licensed or authorised, to receive the drug on his behalf," and the person supplying must be satisfied that the authority is genuine. This regulation

does not apply to dispensed medicine.

HIGH PRICE OF SPIRIT.—In view of the high excise duty on pure alcohol in Holland (7.26fl. per kilo. of pure ethyl alcohol), the Fharmaceutical Society approached the Government with the request that certain preparations used exclusively for external application, such as liniment of camphor, opodeldoc, etc., might be prepared with duty-free alcohol, i.e., ethyl alcohol containing 5 per cent. of methyl alcohol. This was refused, but considerable dissatisfaction is now being felt at the fact that the Government has authorised an important pharmaceutical manufacturing firm to prepare certain preparations with the above duty-free mixture of ethyl alcohol and methyl alcohol. The Pharmacopæia requires the use of pure alcohol, and only such preparations may be supplied by pharmacists, therefore it is stated that the Government has no power to grant any exceptions to this rule. Pharmacopæia Commission is in correspondence with the Minister of Finance on the subject. The Commission is not in favour of the addition of 5 per cent. of methyl The Commission is alcohol to preparations for external use, as it is of opinion that the innocuousness of this addition has not yet been satisfactorily demonstrated. It has submitted certain proposals whereby exemption from duty might be granted for preparations otherwise denaturised. question states that pharmacists are, in its opinion, not liable to punishment if they stock the preparations supplied by it and made with ethyl and methyl alcohol, provided they are kept in containers specifically stating the presence of 5 per cent. of methyl alcohol, and that they draw the purchaser's attention to this fact.

Associations' Winter Session

Belfast.—A meeting of the Ulster Retail Drug Trade Association was held recently in the Chemists' and Druggists' rooms, 11 Waring Street, Belfast, Mr. W. C. Dobbin in the chair. Other members present were Messrs. W. J. Rankin, J. C. Culbert, A. Wilson, J. Dundee, E. J. Roberts, S. Suffern, W. J. Hardy, A. W. Mann, H. G. Pring, W. Macartney, C. Abernethy, and the secretary. A communication was read from the Ministry of Pensions (Ulster Region) stating that sanction had now been provisionally obtained for the supply of drugs by chemists to the Ministry of Pensions larger clinic, in accordance with the scheme and terms submitted by this Association. A prolonged discussion took place on the supply of drugs and patent medicines by distributors to grocers and other traders outside the drug business. It was finally decided that a sub-committee, consisting of Messrs Suffern, Hardy, and Macartney, be appointed to confer with the Wholesale Section of the Belfast Wholesale Merchants' Association, and prepare a list of articles, the prices of which are cut. A special committee meeting was held later to consider matters relating to the Dangerous Drugs Act Regulations. Messrs. Suffern, Culbert, Hardy, Macartney, and Wilson were nominated to draw up information to be issued to members and probably to doctors; also to decide on a universal register.

Birmingham.—The Birmingham Pharmaceutical Association held a council meeting recently, Mr. J. W. Atkinson (President) in the chair. The secretary reported that the special efforts in Birmingham on behalf of the Benevolent Fund amounted to 85l. 6s. 6d., making, with a donation from the Association of 5l. 5s., the sum of 90l. 11s. 6d. Messrs. Atkinson, Francis, and Wakefield were reappointed delegates to the Fèderation. The setting up of local voluntary hospitals committees was considered, and the action of the Executive in recommending Councillor Poole as a suitable member of the committee for Birmingham was approved. It was decided to hold the annual meeting at the Imperial Hotel on October 12. The medals for presentation to the successful students of the Pharmacy School for the last session were exhibited.

Cardiff.—The Cardiff Pharmacists' Association held the first meeting of the session recently, the President (Mr. D. Brims) occupying the chair. The Pharmaceutical Society's scheme of local organisation was discussed, but as nothing definite could be arrived at the subject was deterred. Messrs. A. J. Harris and S. H. Willis were appointed delegates to the meetings of the South Wales Pharmacists' Federation during the ensuing year. Correspondence from the Retail Pharmacists' year. Correspondence from the Retail Finantiacists. Union was read suggesting that an endeavour be made to secure pharmaceutical representation on the boards of management of voluntary hospitals in the area. Messrs. L. Joseph and Jabez A. Jones were actively engaged in the affairs of the principal hospital in the city—the Cardiff Infirmary—it was considered unnecessary to make any further effort. The Welsh College of Pharmacy reopens on October 12, and the prizes and medals awarded to the successful students during last session are to be presented by Major Saville Peck, who is to deliver the inaugural address. Messrs. Edwin Poole and Alec S. Johnson were appointed to conduct the examination or-ganised by the Pharmaceutical Society for the ex-Service students. The Dangerous Drugs Act Regulations were again considered, and a very interesting and useful discussion followed. It was agreed that a registration-fee of 6d. be added to the retail price of the substance to be registered. In view of the additional labour in dispensing dangerous drugs for Insurance prescriptions, a resolution was sent to the secretary of the Cardiff Pharmaceutical Committee and to the Retail Pharmacists' Union asking the Ministry of Health to consider the raising of the fees for Insurance dispensing. The R.P.U. being desirous of obtaining a record of services rendered by pharmacists, their assistants, and apprentices during the great war, it was unanimously decided that a circular be sent to all

members asking for the necessary particulars. The secretary was instructed to convey the sympathy of the meeting to Mr. Leo Joseph, who is ill following an operation for appendicitis.

Exeter.—A meeting of the Devon Pharmaceutical Association was held on September 14, Mr. W. J. Shepperd (Vice-President) presiding. A further discussion on local organisation took place, and it was generally agreed that there exists at present a tendency to overorganisation. It was resolved that the question be postponed until the results of the conference between the Pharmaceutical Society and the Retail Pharmacists' Union be known, and that the Executive should then draw up a report, but that the Pharmaceutical Council be requested to act on its suggestion to subsidise local associations out of the subscriptions of members.

Halifax. — The Halifax Chemists' Association opened the winter session with a meeting on September 19, the President (Mr. L. Chambers) in the chair. Mr. Gibson Dixon, on behalf of the social section committee, submitted his programme for the session, and the President expressed the hope that the efforts of the committee would be rewarded by the support of members. Mr. John Hayes, Leeds, President of the United Chemists' Association, Ltd., gave an interesting paper on The Ucal, Federation Principle. He outlined the growth of "Ucal," its possibilities, and the benefits which accrued by joining the Federation. Mr. Hayes replied to questions on difficulties which had arisen, and promised improved conditions in future. The meeting decided to postpone its decision with respect to the formation of a branch of the Federation until the next meeting.

Harrogate. – The Harrogate Pharmaceutical Association held a meeting on September 22, when the President (Councillor A. Mortimer) gave an address on The Dangerous Drugs Act. Afterwards the result of the plebescite was announced, which was in favour of forming a local branch of the Retail Pharmacists' Union. The voting was equal on the question of disbanding the old Pharmaceutical Association and letting the Retail Pharmacists' Union, Harrogate Branch, take its place. The chairman's casting vote was given in favour of retaining the Harrogate Pharmaceutical Association and forming a new organisation for the Retail Pharmacists' Union.

Manchester.—A special meeting of the Manchester Pharmaceutical Association was held recently to discuss the Dangerous Drugs Act Regulations. There was a large attendance. The President (Mr. T. E. Eastwood), who occupied the chair, called upon Mr. W. Kirkby, M.Sc., to introduce the discussion. Mr. Kirkby then outlined the points of each section as they occur in the Act. Under Regulation 5, he said, there were many pitfalls in the dispensing of prescriptions. The total amount of the drug must be stated by medical men in writing prescriptions, which must be retained by the chemist and filed. Many have their own idea as to how this should be done. Under Section 6 it is necessary to see that the prescription is genuine. Retailers who did any wholesale business would have to have a special licence. Mr. Kirkby described THE CHEMIST AND DRUGGIST Card as excellent and forming a good ground for calculation. Section 10 of the Act, with regard to power of entry and inspection of stock, was dealt with. He advised every chemist to take stock from September 1 of all drugs affected by the Act. Section 11 he described as of far-reaching importance. The stock of opium had to be accounted for. He also pointed out the serious risk chemists were running in selling (as many are doing) laudanum, diluted, as a solution of aqueous tincture of opium. Mr. Bates, J.P., asked if typed prescriptions signed by the medical man would be allowed. Mr. Franklin said he believed so. Mr. Bates contended that when a preparation is diluted it is not the chemist who becomes liable. He hoped these difficulties which had been commented upon would be freely discussed, and, if possible, brought forward at every monthly meeting of the Association until members were more conversant with them. Mr. Hershberg said, in dispensing Insurance scrips, chemists need have very little fear, as he had

gone through 1,107 scripts of recent date and found that tr. opii was ordered seventeen times, chlorodyne B.P.C. eighty times, tr. chlorof. et morph. six times, liq. morph. nine times, cocain. hyd. eight times, and out of the 1,107 scripts only thirteen would come under the Regulations. Mr. Mallinson had written him saying that Insurance scripts would have to be treated exactly in the same manner as private prescriptions. Mr. Simmons criticised the provision for a chemist having to take out a licence (costing about 13% a year) if he did any wholesale business. Mr. Lane (James Woolley, Sons & Co., Ltd.) mentioned the necessity of chemists ordering dangerous drugs from wholesale chemists by written orders duly signed by the chemist. The meeting was adjourned so that more time could be allowed for a full discussion. A vote of thanks was passed to Mr. Kirkby.

Public Pharmacists.—The Public Pharmacists' Association's council held a meeting recently to consider the Dangerous Drugs Act from the hospital pharmacist's point of view, and it was decided to issue a short memorandum on the subject. Any pharmacist engaged in institutional work can obtain a copy from the secretary on receipt of a stamped and addressed (foolscap) envelope. It was decided to hold the opening meeting of the session on Wednesday, October 26. Applications for membership, and all other communications, should be addressed to the secretary, Mr. L. Billington, Islington Infirmary, Highgate Hill, London, N. 19.

sheffield.—A meeting of the Sheffield Pharmaceutical and Chemical Society was held on September 14. Mr. A. Knowles (President), who was in the chair, gave as his inaugural address The Future of Local Associations, and the proposed rules admitting local societies as branches of the Pharmaceutical Society were discussed. While anxious to help in reorganisation, the Sheffield chemists are not willing to accept Rule 4, which provides that all chemists must be members of the Society before they

all chemists must be members of the Society before they are eligible for membership of the local branch. The Dangerous Drugs Act was explained. The secretary (Mr. Hammond) brought forward the following formulary to be supplied when "All Fours" mixture is asked for. It contains 0.13 per cent. of morphine:

Tr. camph. co. ... 3vj. Ol. menth. pip. ... 5iij. Tr. opii, B.P. '98 ... 3j. Ol. anisi 3v. It was decided that the uniform price of 6d. per 5 drams be charged. The secretary asked that any member finding difficulties in working the Act should apply to him.

Walthamstow.—The adjourned annual meeting of the Walthamstow Pharmaceutical Association was held on September 21, when it was agreed that the Association should be carried on as at present constituted. The election of officers then took place, as follows: President, Mr. G. F. Deeth; Vice-President, Mr. W. Gray; the retiring President, Mr. A. M. Brown, taking the place of Mr. Gray on the Committee; Auditor, Mr. J. O. McGlinchy; Secretary and Treasurer, Mr. W. E. Gaze (Highams Park). Points of interest in connection with the Dangerous Drugs Act Regulations were discussed. Mr. G. F. Deeth, the new President, is secretary of the London Chemists' Golfing Society.

west Ham.—At a meeting of the West Ham Association of Pharmacists on September 15, a lecture was delivered by Dr. J. Stanley White (of the scientific staff of Parke, Davis & Co.) on The Ductiess Glands and their Uses in Medicine. The chair was occupied by Dr. Frank Challans, who was supported by the President of the Association (Mr. S. Clifford Jones). Dr. White briefly discussed the history of organo-therany. He explained the term "internal secretion," and the anatomy of the individual glands and their inter-relationship. Special reference was made to the thyroid gland. The therapeutic use of extracts of the glands was dealt with, and the principles underlying their administration. The lecture was illustrated by lantern slides.

BANDOENG QUININE FACTORY.—On September 6 the Bandoeng quinine factory celebrated the anniversary of its creation twenty-five years ago, giving, inter alia, a banquet to its personnel.

P.A.T.A. of South Africa

The ninth annual general meeting was held on August 11, 1921, at the Association's rooms, Cape Town. There were present: Messrs. Sims (chairman), Wolfe, Mathew, Arvidson, Main, Linley, Jardine, Freeman, and the secretary, Mr. R. Kemp. The hon, treasurer, Mr. Frank Mathew, presented the financial report and balance-sheet, which was adopted. The secretary then read the Council's report, of which the following is an abstract:

The Council has held thirteen meetings. Regret is expressed that on two occasions the meetings were abortive owing to a quorum not being present. During the past year five new manufacturers have been added to the roll of membership. In this connection we are glad to welcome back Messrs. Allen & Hanbury, who were one of the Association's earliest supporters. Nine retail members have also been enrolled and one wholesaler. The Transvaal branch, under the untiring honorary secretaryship of Mr. Alex Anderson, and supported by a very active committee, has developed into a most virile body, while the Durban branch, which is of more recent birth, gives promise of a strong adolescence. The financial side of the Association has never been so healthy as at present. Office expenses are kept as low as possible. This, together with increased revenue and the substantial contribution of 1004. from the Transvaal branch towards head office funds, allows the sum of 3434. 15s. 10d. to be carried forward to next year. The past year has been fraught with most important considerations to members of the Association. In January last investigations were instituted by the Board of Control under the Profiteering Act into the working of the Association in the Transvaal. After a keen and critical investigation the Board of Control accepted the evidence submitted by the Association, and made no order in any way. Some months subsequently, however, a complaint was lodged with the Board of Control accepted the evidence submitted by the Association, and made no order in any way. Some months subsequently, however, a complaint was lodged with the Board that an undue profit was being made on a proprietary article protected in the Transvaal but not protected in the rest of the Union. Several further interviews then took place with the Board of Control, when it was pointed out that under the Profiteering Act it was illegal to stop supplies to "cutters" who were prepared to purchase in trade quantities and on trade conditions. Further, that the clause

After discussion, Mr. Jardine proposed and Mr. Freeman seconded: "That the Council's report and balancesheet be printed in the 'Journal' and sent to every member for consideration, and that this meeting stand adjourned for six weeks." In speaking to his proposition, Mr. Jardine considered that the P.A.T.A. was now of no use, and that it should be liquidated. By postponing the meeting and adopting his proposition members would be able to signify their wishes as to liquidation. Mr. Wolfe objected, and gave an outline of a special recommendation from Council to be submitted to the meeting. It was also pointed out that owing to the terrible apathy of chemists no good purpose would be accomplished. Messrs. Mathew and Main supported Mr. Wolfe, and after the fullest discussion Mr. Jardine's proposal was defeated. Mr. Wolfe then moved the adoption of Council's report, which was seconded by Mr. Main and adopted. The present Council was re-elected en bloc, with power to fill any vacancies if necessary. Messrs. Willmot & Co. were elected auditors for the coming year. The meeting then adopted the following resolution of Council, viz.: "In view of the curtailment of the Association's power by the Board of Control, that the Association should lie dormant for twelve months, or for such lesser time as the Board might be in existence or Council decide, and that the subscriptions paid for last year carry over for the forthcoming year. Further, that the Association keep on the office at 117 St. George's Street, and pay the secretary a retaining-fee in lieu of salary."

D.D.A. Card for Chemists

This card is still on sale at the various offices of The Chemist and Druggist, at the following prices for cash with order:

| | | | | | | 8. | d. |
|-----|--------------------------|----------|------|------|-----|--------|----|
| Per | Cal | rd, post | free | | ••• | 1 | 0 |
| 3 c | $\mathbf{ard}\mathbf{s}$ | ٠,, | | | | 2 | 9 |
| 12 | ,, | ,, | | | | 10 | 0 |
| 25 | ,, | ,, | | | | 20 | 0 |
| 50 | ,, | ,, | | | | 35 | 0 |
| 100 | ,, | carriage | paid | | | 60 | 0 |

The card, measuring 10 in. by $12\frac{1}{2}$ in. and provided with a cord for hanging up, gives a concise summary of the Regulations under the Dangerous Drugs Act, which came into force on September 1, and in addition a table showing the percentage of cocaine, diamorphine, and morphine in various official and unofficial pharmaceutical preparations. A method is also given for finding out whether prescriptions containing "dangerous" drugs or their preparations require to be treated with the formalities laid down in the Regulations.

The card can also be obtained by callers at our provincial offices: 49 County Buildings, Old Millgate, Manchester, and 54 Foster's Buildings, High Street, Sheffield.

D.D.A. Card for Prescribers

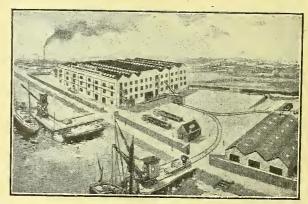
We have, in response to numerous requests from subscribers, prepared a Dangerous Drugs Act card specially for prescribers. It is quite distinct from the card which we have issued for chemists' use, and of which many thousands have been sold within the past few weeks. The purpose of the Prescribers' Card is to supply medical men, and also dentists and veterinary surgeons, with information in a concise form regarding the Dangerous Drugs Act Regulations, so that they will know exactly what formalities are needed when prescribing "dangerous" drugs. The card is suitable for distribution to local practitioners. The "Notes for Prescribers" are intended to show the limits of cocaine, diamorphine, morphine, and optum that can be ordered without bringing the prescription within the Dangerous Drugs Act. In this case we have adopted the C. & D. "safety" limits, which have been especially devised so as not to bring the quantities too near the limits laid down in the Act. We believe that the card will not only assist medical men to acquire a knowledge of the Regulations governing the supply of "dangerous" drugs, but that it will facilitate chemists' dispensing by doing away with informal prescriptions, and on this account we suggest that chemists, either individually or through local Associations or Pharmaceutical Committees, should distribute the cards freely, so that each practitioner can carry a copy with him and also keep one in his consulting-room for easy reference. The cards measure 7 in. \times $3\frac{1}{2}$ in., and are printed on both sides. Two small holes at the top can be corded so that the card may be suspended. Each card is placed in a specially made envelope, so that with the name and address of the practitioner it can be delivered by hand or sent by post at "Printed Matter" rate. There is sufficient space on the top of the card for the chemist to place his prescription stamp, and it has been suggested that to this might be added the telephone number. We are selling the cards at a cheap rate, and to save unnecessary labour they are only sold in the minimum quantity of one dozen. The cards will be supplied at the following prices (including envelopes), post free or carriage paid, for cash with order :

| | | 8. | d. |
|------------------------------------|----|----|----|
| One dozen cards (minimum quantity) | | 1 | 6 |
| Three dozen | | 4 | 0 |
| Twelve dozen and over (per doze | n) | 1 | 3 |

We shall be glad to send a free sample of the Prescribers' Card to any of our subscribers who send us 1d. stamp for postage.

New Glass Factory

The illustration below gives some idea of the fine new wharf and warehouse erected at Charlton, seven miles by road from London Bridge, by Johnsen & Jörgensen, Ltd., glass and bottle manufacturers and importers, whose offices and showrooms are at 26 and 27 Farringdon Street, London, E.C. The other day, Mr. Johnsen placed himself at the disposal of a C. & D. man, whom he conducted on a rapid tour over the buildings. A new departure for the company has been the installation of a series of ingenious, automatic machines which, with a minimum of attention, carry out the transformation of glass tubing into pill or tablet bottles having a capacity of half-drachm to one ounce. These phials are described as "Trident" phials, and as such are destined, no doubt, to become familiar not only to dispensing chemists, but to manufacturers and packers of patent medicines, perfumery articles, tablets, pills, etc. There are five stages in the process of manufacture, each of which is carried out with remarkable accuracy and precision; every phial has the advantage of being strictly to pattern, and of the required capacity, and, as the aperture is always of the same standard size, the fitting of corks is no longer a



BIRD'S-EYE VIEW OF WHARF, AND BUILDINGS.

troublesome operation. "Trident" phials are thus specially adapted for high-speed filling machines; they are packed so as to facilitate filling; the strong cardboard containers are suitable for storage, and stock can be seen at a glance. They are also cleaned before leaving the factory. Rapidity of production, of course, means lessened cost, an advantage which, in this case, will be shared by the trade. The premises themselves, which are built on 30-foot piles, consist of handsome three-storey, lofty, brick buildings with reinforced concrete pillars and floors, and are thus practically fireproof. There are two jetties with electric and steam cranes. The storage capacity of twelve huge rooms may be gauged from the fact that the total floor area is about 80,000 sq. feet; in addition there are four acres of open space. The adoption of modern ideas throughout utilises to the utmost the splendid facilities which are at once apparent for the collection, landing, storage, and delivery of goods. Johnsen & Jörgensen, Ltd., were established in 1884 by W. M. Johnsen and J. Jörgensen as merchants, importers, and exporters, dealing largely in Norwegian cod-liver oil, fish oil, and fish products. A department for glassware soon developed, until the company to-day, handling, as it does, products of every glassmanufacturing country in the world, has a unique position as suppliers of all kinds of glass for every purpose. Messrs. Johnsen & Jörgensen possess large bottle works in Sweden with an output of 35 millions of bottles, and were instrumental in obtaining for Norway the famous Owen's machine. The London general staff numbers about fifty, besides twelve travellers for England and the Colonies, and there are eight departments under managers. The directors are: Mr. J. Jörgensen, chairman; Mr. I. Throndsen, who has been thirty-two years in the firm, general managers, Major Oscar Johnsen; and Captain J. R. C. Jörgensen.

Marriages

TEUNION-AITKEN .- At the Burlington House, Glasgow, on September 14, by the Rev. C. McKinnon, M.A., assisted by the Rev. J. M. Crawford, B.D., James Teunion, chemist and druggist, Prestwick, to Jean Shanks Anderson, eldest daughter of Mr. David Aitken, Coatbridge.

WRIGHT—MORRISON.—At St. Luke's Parish Church, Lochee, Dundee, on September 22, by the Rev. Evelyn Gall, B.D., assisted by Rev. J. R. Wark, M.A., William Wright, M.P.S., A.T.S.C., only surviving son of Mr. W. I. Wright, Cypress Cottage, Banchory, Kincardineshire, to Mary Mildar, second daughter of Mr. Robert Morrison, 20 Benvie Road, Dundee.

Silver Weddings

Rose—Culverhouse.—At Christ Church, Brondesbury, London, N.W., on September 23, 1896, by the Rev. J. C. Farnborough, uncle of the bridegroom, Francis Rose, Ph.C., Ramsgate, to Gertrude Emma, daughter of the late Mr. Edward J. Culverhouse, Hampstead. Present address: Burcott, Boscombe, Hants.

SKINNER-TOWNER.-At St. George's Church, Worthing, on September 29, 1896, Herbert Skinner, pharmaceutist, Great Northern Central Hospital, London, N., to Louie, eldest daughter of Mr. and Mrs. W. Towner, Worthing.

Deaths

HILL.—At 24 Victoria Road, Scarborough, on September 21, Mr. Richard Mainprise Hill, chemist and druggist,



aged sixty-three. Mr. Hill was apprenticed in 1873 to the late Mr. Samuel Eccles, 9 Westborough, Scarborough. After serving for the then customary period of five years, he gained further experience as an assistant at Reading, and afterwards took a course of study at Wills's Westminster College of Pharmacy. Returning to Yorkshire after qualifying (in 1880), Mr. Hill was for some time an assistant at Pickering. He established himself at Scarborough in 1883, and became widely

MR. R. M. HILL

1883, and became widely known and respected. In 1907 he was elected President of the Scarborough and North Riding of Yorkshire Association of Pharmacists. For the past nine years Mr. Hill had been an invalid, but had had the assistance of his daughter, Miss Ada M. Hill, Ph.C., who, trained under his supervision, passed the Major examination in 1909. The business will be continued by Miss Hill. The funeral service was held at St. Peter's Roman Catholic Church on September 23, in the presence of a large congregation. Miss Hill was chief mourner, and among the pharmacists present were Mr. E. R. Cross, Ph.C., Mr. G. H. Meadley, Ph.C., and Mr. G. Whitfield, Ph.C. Inch.—On September 23, Mabel, the dearly beloved

INCH.—On September 23, Mabel, the dearly beloved wife of Mr. J. Paul Inch, chemist and druggist, 178 Kennington Park Road, London, S.E. 11.

Long.-At New Herrington, on September 7, Mr. Herbert Samuel Amis Long, chemist and druggist. Mr. Long, who was a younger brother of Mr. F. C. Long, Ph.C., Headingley, Leeds, was apprenticed to Mr. G. E. Clarke, Ph.C., London Road, Lowestoft. He studied at the Bloomsbury Square School of Pharmacy, winning a silver medal and a certificate, and qualified in 1896. After further experience with his brother and at Scarborough. he commenced business on his own account. Both his parents survive him, and for them much sympathy is felt.

TURNER.—At Glensorrel, Dumfries, on September 25, Jessie Smith, the beloved wife of Mr. Alexander Turner, Ph.C., Buccleuch Street.

Personalities

Mr. Roger Fogg, manager of the ammonia-soda works of The United Alkali Co., Ltd., Fleetwood, has retired after twenty-eight years' service with the company.

ALDERMAN J. R. BIRKETT, J.P., chemist and druggist, Morecambe, who has held the office of mayor seven times, has been unanimously invited to accept office again.

MR. J. CURTIS BREWER, who has just recovered from a long and serious illness, has resigned his position with Cuxson, Gerrard & Co., Ltd., Oldbury, Birmingham, and is starting business on his own account.

Mr. H. M. Ashton, chemist and druggist, who, as announced in the C. & D., I., 1921, p. 414, has disposed of his business at 63 Sankey Street, Warrington, may be addressed at 111 Moss Lane West, Manchester.

Mr. J. H. Adamson, assistant-manager of Booker Brothers' Drug Store, Georgetown, Demerara, has arrived in England for a stay of some months, and may be addressed c/o Booker Brothers, McConnell & Co., Ltd., 21 Mincing Lane, London, E.C. 3.

A TABLET to the memory of the officers and men of the 1/7th and 2/7th Battalions of the Royal Warwickshire Regiment was unveiled by Colonel W. F. Wyley at the Club and Institute of the 7th R.W.R. Old Comrades' Association, Coventry, on September 17.

Mr. End Bontcheff, of Bontcheff & Kidoff, Kazanlik, Bulgaria (members of the British Chamber of Commerce for Bulgaria), otto of rose distillers and exporters, is now in London, and may be addressed c/o his agents, Fredk. Boehm, Ltd., 15 to 17 Jewry Street, London, E.C.

Mr. Leonard Hooper, chemist and druggist, High Wycombe, and Mrs. Hooper celebrated their golden wedding on September 20. Mr. Hooper, who was formerly in business in Broadstairs, took over his present pharmacy, that of Lansdale & Co., twenty-five years ago.

Master H. R. Cox, youngest son of Mr. Arthur H. Cox (Arthur H. Cox & Co., Ltd.), gained a double victory at the Brighton Swimming Club gala on September 23. Although only fourteen years of age, he won the hundred yards' championship of Sussex, and, later in the evening, the hundred yards' junior championship of the Brighton Swimming Club, thus establishing a record.

MR. HARRY WILSON, F.I.C., has appointed Mr. H. R. Hussey managing director, and Mr. W. H. Adams a director, of Randall & Wilson, Ltd., chemists, Southampton. Mr. Wilson will still be governing director, but the appointments are made because he is seeking some relaxation after a strenuous career of twenty-seven years in developing the Southampton business. The change in developing the Southampton business. The change takes place as from October 1. Mr. Wilson was on the board of examiners of the Pharmaceutical Society of Great Britain from 1915 to 1919, and examined Major candidates during the whole of that period. He was also, in 1917, one of the examiners for the Pereira Medal and Council prizes. Mr. Wilson has served on the Executive Committee of the British Pharmaceutical Conference, and was also on the Unofficial Formulary Committee of that lody. In 1902 he obtained by examination the qualifica-tion of the Institute of Chemistry in microscopy, therapeutics, and pharmacology.

Wills .

MR. WALTER HERBERT BOREHAM, chemist and druggist, 142 Uxbridge Road, Hanwell, who died on July 6 intestate, left estate of the gross value of 9.305l. 12s., with net personalty 3,831l. 15s. 3d. Letters of administration of his property have been granted to his widow, Mrs. A. L. Boreham, 54 Cherington Road, Hanwell.

MR. JOSEPH PARKIN, drug-store proprietor, 5 Rosebery Avenue, Morecambe, who died on May 26, left 2.511l. 5s. 7d., the net personalty being 1.654l. 2s. 9d. Probate is granted to Humphrey Ashworth, 219 Lancaster Road, Morecambe; Walter Maurice Parkin, Parkinson Street, Foulridge, brother; and William Walsh, 6 Aldwich Place, Brownhill, Blackburn.

Trade Notes

FORMALDEHYDE.—British-made formaldehyde is obtainable from the manufacturers, Synthite, Ltd., 12 Norfolk Street, Strand, London, W.C. 2.

ALBULACTIN.—The retail prices of Albulactin will be increased from October 1 to 3s. 6d. and 7s. Mr. J. G. Clark, 71 High Holborn, London, W.C. 1, is the British agent.

Colossol Ferromalt, a product of the Crookes Laboratories, 22 Chenies Street, Tottenham Court Road, London, W.C. 1, is to be a leading line in the coming winter.

FRENCH BOTTLES.—Housset & Co., 12 Rue de Grammont, Paris (Opéra, 2E) offer bottles suitable for chemists and perfumers, also jars and pots for skin-cream manufacturers.

BRUSSON JEUNE DIABETIC GLUTEN BREAD.—This well-known diabetic bread is now obtainable from wholesale houses or from the British agent, Mr. O. Wells, 1 Manor Road, Brockley, London, S.E. 4.

CARDED CONCENTRATED PERFUMES.—Ruvoire et Cie., 154 Church Lane, Harpurhey, Manchester, offer a special line of spirit-free concentrated perfumes. The idea of displaying the varieties on a card is a good one.

CUTEX PRICES.—Henry C. Quelch & Co., 4 and 5 Ludgate Square, Ludgate Hill, London, E.C. 4, announce in their advertisement a reduction in the prices of No. 8 Cutex nail-polish powder and No. 22 Cutex nail-polish stick.

Packed Seidlitz.—The Greenwich Lemonade Co., 11 John Penn Street, London, S.E. 13, advertise their lemon-flavoured and sweetened seidlitz powders (extra strong). These, which are attractively packed, sell at 3d. each, and are an improvement on the official variety.

Zomogen is a new tonic-food made by the Zomogen Food Products, Ltd., 63 York Place, Edinburgh. The wholesale distributors are J. C. Gambles & Co., 49 Farringdon Street, London, E.C. 4. An offer to take back unsold bottles if unsold in six months is a new form of guarantee, given in the advertisement.

LAVENDER OIL.—Perks & Llewellyn, chemists, Hitchin, send us a sample of the new season's English lavender oil which they distil. We commented recently on the fine quality of the lavender flowers this year, and it is interesting to find that the oil distilled from them is also of exceptional sweetness and quality.

EUTHYMOL WINDOW-DRESSING COMPETITION.—The advertisement in this issue of Parke, Davis & Co., 50-54 Beak Street, London, W. 1, gives the full list of prize-winners in the recent window-dressing competition held in connection with Euthymol tooth-paste. There are ten first prizes, ten second prizes, and fifty third prizes.

DE LUZY PERFUMERY will be shown on and after October 1 in the London office and showrooms that are being opened at 3 London Wall Avenue, London, E.C. 2. The branch is under the management of Mr. W. H. Calnan, the separation of this part of the business of W. H. Calnan & Co., Ltd., being a friendly arrangement designed to develop the business.

Pom Pom Silcream.—Forster Bros. & Co., 24 Laurence Lane, London, E.C. 2, advertise in this number a new skin cream—Pom Pom Silcream. This is packed in an urn-shaped opal pot, the lid being also in opal—a most distinctive and attractive container. The pots are enclosed in square cartons with purple labels. The cream itself has a beautiful nacreous sheen and delicate perfume. The retail price is 28. 6d.

INK TABLETS.—The Eklips brand ink tablets made by H. E. Stevenson & Co., manufacturing chemists, 122 Great Suffolk Street, London, S.E., are a convenience not only to buyers in foreign and the British overseas Dominions but to home users. The blue-black ink tablets which we have tried this week yield a really fine writing-ink. The tablets for red and black ink are equally convenient, and are of the same excellent quality.

Kahlbaum's Chemicals.—In our issue of August 6 we stated that Sparks, White & Co., Ltd., had been appointed

agents for the sale of the chemical products manufactured by C. A. F. Kahlbaum, Adlershof, Berlin. This agency, however, applies only to chemicals in bulk for manufacturing purposes. The agency for the sale of fine chemicals for technical and research purposes is still held by John J. Griffin & Sons, Ltd., Kingsway, W.C. 2, to whom inquiries should be addressed.

RODINE ADVERTISING.—Mr. Thos. Harley, manufacturing chemist, Perth, sends us specimens of the new advertising matter which is being distributed in connection with Rodine rat-poison. A showcard (14½ by 9½ in.) printed in colours has as a centre piece a package of Rodine, with price particulars below. A taking novelty, however, is the "Piper of Perth" poster. This is in colours, and shows a lusty Scottish piper (utilising a package of Rodine as bagpipes) leading colonies of rats to destruction. The same theme is developed in small handbills. These will be sent to agents, and other chemists may have sumplies on application

chemists may have supplies on application.

Packed Chemicals.—The British Drug Houses, Ltd., 22-30 Graham Street, London, N. 1, advertise in this issue "P.P.P." chemicals ready for retailing. The letters stand for "Pure for Pharmaceutical Purposes." The packages, samples of which we have seen, are very neatly got up, the chemicals being contained in square cardboard cartons, exactly holding the 1 oz., 2 oz., or 4 cz. of contents. A feature of the cartons is the neat labelling with the B.D.H. guarantee of quality. Directions for use are also given. Factory-packed chemicals are cheaper than when home-packed, and their sale promotes the economical running of the pharmacy.

Business Changes

Mr. Tom Lewis, dispensing chemist, will shortly open at 123 Ynyshir Road, Ynyshir, Rhondda Valley.

Drug, photographic, and optical departments have been opened by the Bolton Co-operative Society, Ltd., in their premises at the corner of Deansgate and Market Street.

BURNSIDE & Co., importers and exporters, Melbourne, Australia, have removed their London office to 10 Church Street, Minories, E.C.; their telephone number is Avenue 9142.

MR. FRANK A. ROGERS, pharmacist, has removed his business from 327 Oxford Street to larger and more convenient premises at 1 Beaumont Street, London, W. 1. (Telephone, "Langham 2538.")

MR. W. H. PADGET, chemist and druggist, Newport, Mon., has acquired the business of Benson Harries, Ltd., chemists, 84 Commercial Road, Newport, and will continue it under his own name.

NEW TELEPHONE EXCHANGE.—We are informed that the telephone number of Henry Wheeler & Son, drug importers and exporters, 9 Great Tower Street, London, E.C. 3, is "Minories 2777," owing to their transfer to the new exchange opened on September 24. This exchange has a capacity of 2,000 lines, drawn from the Avenue, London Wall, and Bank exchanges.

Information Department >

INFORMATION WANTED

A/279. "Longo" brand succus glycyrrhizæ
F/269. Lecches; immediate supply
B/239. Phosphophora

S/279. No. 350 rheumatism tablets
E/229. "Duplex" hair preparations
D/289. "Corporation" hygienic teats

INFORMATION SUPPLIED

Albert's rhomatic and gout remedy, E/269
Bond's beaver cement, C/139
Cartons and fancy boxes for toilet preparations, D/239
Holocain, H/109
"Jelo" ahdominal belt, M/209
"Jicky" perfumes, B/99
Mason-Pearson hair-brush, L/219

Mother Seigel's Syrup, M/219
Pollantin, S/279
"Red Circle" pills, M/169
"Sphinx" straw-hat polish, P/209
Ticket-writing and embossing machines, W/249
Watkins' cocoanut-oil shampoo, D/139

Observations and Reflections

By Xrayser II.

The Schedule of Articles

chargeable with 33¼ per cent. duty under the Safeguarding of Industries Act (Part I.) seems to have caused wide-spread consternation in the commercial world. Something like 6,000 articles are scheduled, which is immensely in excess of any calculation ever made of the scope of the measure, the true character of which, camouflaged until now, is at length revealed. Pharmacists will be hard hit by it, but it is not from them that the first cries of indignation have come. The fancy-goods section of the London Chamber of Commerce and the Calico Printers' Association in Manchester have uttered strong protests, and a vigilance committee has already been formed to watch the working of the Act. What are we going to do in the matter? It is conceivable that there will be differences of opinion concerning it between manufacturing chemists and retailers, but the latter can hardly fail to agree that it will be highly detrimental to their interests. It is a matter the Retail Pharmacists' Union ought to take up at once with a view to abating the evil with which we are threatened, though it is too late entirely to avert it.

"Fine Chemicals"

is a phrase that does not occur in the Oxford Dictionary, and the question is whether "fine" is here used in a specialised sense or is to be interpreted as if "fine" were used in the general sense given to it in your quotation from the dictionary. The Board of Trade, however, has not been content with this: their list includes chemicals that are not "fine" in this sense. When, and with what special significance (if any), was the term "fine chemicals" first used? I have taken the trouble to look through your annual surveys of the pharmaceutical year and market movements since 1889, and its first appearance there, unless I have accidentally overlooked an earlier one, is in 1904, where one section of your review is headed "Among Fine Chemicals and Alkaloids." In the following year this is altered to "Fine Drugs and Chemicals," and both headings are significant, these sections being in contrast with others headed "Crude Drugs." In both articles quotations are given for crude drugs, but this is only in explanation of the advance or decline in the value of the "fine" product. When I say that among the latter tartaric and citric acids, cream of tartar "of the highest grade," pyrogallic, and acetic acids occur, it will be seen that the inclusion of these in the Board of Trade list would be defensible if R were attached, but it is not so when no indication of quality is given.

The Nemesis of Science,

it might plausibly be maintained, is indicated in the Oppau explosion; certainly chemistry takes a terrible toll of its followers. Even when the end sought is beneficent one is sometimes almost tempted to ask whether this reckless pursuit of knowledge is worth while, until one remembers that all material and perhaps all moral advance is in the same way bought "with blood and tears." It is by the sacrifice of the individual that the race advances, and, not being a dean, one hesitates to say that the race is not worth it. If only one were sure that the moral advance keeps equal step with the material, one need not hesitate; but does it? Does mankind as a whole even agree that it is equally desirable? Remembering that the ends of science are not always beneficent, one again hesitates to reply.

Searching Your Volumes

for another purpose, I came, in the one for the second half of the year 1889, upon an answer to my recent question respecting the reason and date of the revival of the use of senna-pods in this country. On p. 200 of the volume referred to (XXXV), you printed an extract from "The Lancet" to the effect that Mesne preferred the pods to the leaves, a preference, however,

which your contemporary did not share, though admitting that the pods are pleasanter to take and cause less griping. You added that a considerable quantity of the pods was regularly disposed of in the London market, but did not say where they went to. In July of the same year Dr. Macfarlane had, in "The Lancet," recommended a trial of the pods, and Messrs. Rankin & Borland, of Kilmarnock, sent you, in October, a sample of extractum sennæ leguminum liquidum prepared by them at his suggestion, of which you highly approved, comparing its action to that of cascara sagrada, to which you said it was likely to prove a formidable rival. Some correspondence followed in your columns, and in November Dr. Symes read an article on "The Essence of Senna-pods" before the Liverpool Association, printed by you in Vol. XXXV., p. 666. Dr. Symes, it seems, had bought some pods twelve months or so before, but had had no occasion to use them, and I confess I never met with them until some time after this. Your prophecy, however, has been amply fulfilled.

I have just been Reading

in a weekly paper a noteworthy article on "The Conscience of Science"; but has science a conscience? No doubt individual scientists have, and hence we find men like Professor Soddy and Sir Edward Thorpe earnestly protesting against the manufacture of poison gas; yet, in spite of their protest, the manufacture, and the research that prepares the way for still worse horrors, goes on in all the most "civilised" countries, and there can be no doubt that if another war were to break out to-morrow even these humaner scientists would, though it might be against their better will, be forced to do as others do: the "herd instinct," or whatever it is that excites collective human action, would be too much for them. So long as science is the servant she will obey her masters, whether they are Governments or popular opinion; until she acquires a conscience that compels her to a self-determining course of purely beneficent action the world is not safe. Fortunately, there are indications in the attitude of the scientists I have named that give us some hope of this.

The Powick "Misadventure"

points the old moral' with more than usual sharpness. Ne sutor ultra crepidam: doctors, though legally qualified to dispense, are not often actually so; it is not really their business, and most of them regard it as unworthy of serious attention. In this case "an experienced, skilful, and reliable doctor" failed to notice poison" label on the bottle with which he was dealing, and to distinguish between belladonna and cascara, though the difference was, of course, plain enough in the medicine he dispensed. But, if possible, even more reprehensible than his carelessness were the attendant circumstances and the system which made them possible. A locum tenens in a dispensary where a deadly poison stands cheek by jowl with a harmless drug, with nothing external to mark their difference except a "poison" label that can pass unnoticed! Such a thing would, it is hoped, be impossible in any chemist's shop, and it is difficult to conceive of a chemist who would not be arrested by the smell of belladonna even if he failed (which is unlikely) to examine the article before dispensing it. And suppose a chemist had in some temporary lapse of attention made this blunder, what would the doctor in charge of the case have said of him? What would the verdict of the jury have been? One does not wish to press unduly upon a fellow-mortal who has made a fatal mistake, but every case of this kind ought to be used as a nail in the coffin of "the dispensing doctor."

The Dominican lime crop for 1919 amounted to 401,923 barrels of fruit, an increase of 83,000 barrels over the output of 1918, and the largest for several years past. Exports of lime products from Dominica in 1919 were as follows: Concentrated lime juice, 166,718 gall.; raw juice, 298,312 gall.; citrate of lime, 6,772 cwt.; essential oil. 67,787 lb.; handpressed, 16,964 lb. The total value of lime products exported in 1919 was 196,401*l*.

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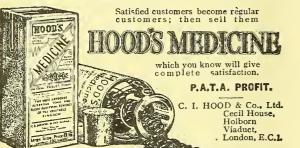
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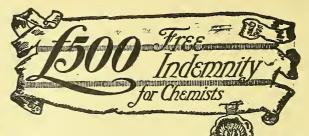
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Editorial Articles

Doctors' Insurance Payments

Consternation has been caused in medical circles by the announcement that as a measure of economy the Ministry of Health propose to save two million pounds a year in medical benefit under the National Insurance Acts mainly by reducing the payments made to panel doctors. Before the war doctors received 7s. 6d. for each insured person on their books, this being gradually increased until last year it was raised to 11s. It is now proposed to reduce this to 9s. 6d. or thereabouts. The annual conference of representatives of local medical and panel committees is to meet in London on October 20, under the chairmanship of Dr. H. G. Dain, of Birmingham, and the proposed reduction in payment for medical service will be the chief subject under discussion. Already various medical associations have protested vigorously at the proposed reductions, and the British Medical Association has issued the following recommendations:

That the Conference reaffirms the opinion that 13s. 6d. is the lowest capitation-fee that should be offered for an effective service; but in view of the arbitrators' award of 11s., and in view of the serious state of the national finances, does not at present press for an increase of the capitationfee to that amount

That the Conference has no desire to give other than a liberal interpretation to the phrase "such treatment as is of a kind which can, consistently with the best interests of the patient, be properly undertaken by a general practitioner of ordinary professional competence and skill."

the patient, be properly undertaken by a general practitioner of ordinary professional competence and skill."

That the Conference would welcome a wide inquiry into the working of the National Health Insurance Acts, but suggests that the part of any such inquiry concerned with medical benefit should not be entered upon until after April 1922, when the new Regulations will have been two complete years in operation.

That the measure of success which has attended the experiment of providing medical benefit under the National Health Insurance Acts system has been sufficient to justify the profession in uniting to ensure the continuance and improvement of this system.

That the Insurance Acts Committee be authorised to take steps at an early date to organise the profession so as to take such action as may be found necessary in pursuance of the foregoing resolutions.

The interest in the matter to chemists does not rest upon the question of the quality of the service which panel doctors give to insured persons, upon which a good deal could be said, but in the probability that an attempt will also be made to reduce the dispensing-fees payable to chemists for insurance work.

Key Industry Duty

THE letter which we publish on p. 69 of this issue is indicative of the spirit in which the chemical and drug trades have received the publication of the schedule of articles chargeable with the 333 per cent. duty under Part I. of the Safeguarding of Industries Act, which comes into force on Saturday next. Such an enormous list, containing as it does between six and seven thousand items, was never contemplated by the chemical trade, as it includes many products not made, or likely to be made, in this country, and is therefore calculated to advance the price of a considerable number of commodities. This upward tendency of prices has already been noted in our Trade Report, but until the full effect of the Act is seen in operation it would be idle to speculate as to what will be the ultimate trend. At the moment the trade has not got over its sense of bewilderment, and the present disorganised conditions in regard to prices are likely to prevail for some considerable time. It is true that a forestalling of the Act has taken place on a large scale, and, had the monetary conditions in this country been easier, no doubt much larger imports of Continental chemicals would have taken place. As it is, there are considerable supplies available, and in some products, particularly fine chemicals, there is already a three years' supply—i.e., goods sent on consignment. It is quite anticipated that a united protest will be made by the importing chemical trade with a view to having the list revised by technical and trading experts, with a view to eliminating products which are outside the scope or intention of the framers of the Act. Apart from the inclusion of many products which nobody has ever heard of, such items as lodal, xaxa and xaxaquin are included, which are trademark chemicals exclusively manufactured in Great Britain. Then adrenalin appears in the list, but not Merck's paranephrin, a discrepancy that is peculiar; digitoxine is included, but not digitalin, and so on. Menthol is included, but who is going to manufacture it in England? The inclusion in the list of citric acid, tartaric acid, and cream of tartar should help British makers, but what would happen if France, Italy, or Spain placed a countervailing duty on raw material by way of retaliation? Merchants and agents in London inform us that they intend to make arrangements whereby their products in future will be shipped direct from the producing countries to their customers, and so avoid the troublesome necessity of claiming drawback on exported goods and obviating dock charges, rents, cartage, and other incidental charges. There is also the danger that London may lose a large proportion of its re-export trade in menthol and camphor (although the latter is not on the list), as it will be more profitable to carry, say, stocks in Hamburg, from which supplies can be drawn for direct shipment. Japan exports an average of 5,000 cases of menthol annually, of which the bulk is shipped to the London market, and subsequently re-exported, some 500 cases probably being retained for home consumption. In the new circumstances this trade would quickly disappear. It is important to note that goods liable to Key Industry duty are not allowed to be deposited in bonded warehouses, and the duty must be paid on the importation of the goods. This at once places an important section of our re-export trade in jeopardy. How would an export druggist in filling an indent for, say, a dozen or more dutiable medicinal chemicals in small quantities, be able to claim drawback on re-packed goods placed in the usual small containers, unless he is given facilities for working in bond? At the same time there will be many dutiable raw materials which will disappear in the finished product into which they are worked. It is, therefore, evident that if the Customs are to keep track of all dutiable articles, new machinery will have to be set up and another army of officials engaged. The Custom House has issued a special leaflet dealing with the Key Industry duty, the essential facts of which we give on p. 63. one or two points, however, which deserve emphasise.g., all goods scheduled in the "Key" list on and from October 1 that have not been entered at the Custom House before the offices close on September 30 will be taxed, but the goods need not necessarily be landed or cleared out of Customs charge prior to October 1. The duty will be calculated on the c.i.f. British port value of the goods-i.e., invoice value of the goods, plus freight and insurance, and the rate of exchange on the date of the arrival of the importing boat, not the date on which the goods were ordered, will form the basis for arriving at the sterling value of the goods. With exchange rates continually fluctuating, importers will therefore be liable to incur heavy financial loss if the rate improves between the dates of order of the goods and their arrival in this country. This is an important point, and one that should be remedied. When clearing "Key" goods importers will have to furnish Customs with the foreign exporter's original invoice and a copy of same; the latter for retention by Customs, together with freight notes and other documents showing the charges for freight and insurance. Declaration of entries will be accepted from the importer or from properly authorised shipping agents. In the latter case the importer must furnish the shipping agent with a letter of authority signed by an authorised person of the company. porters should note that provision is made under section 10 (1) of the Finance Act, 1901, to cover them against financial loss regarding goods ordered before the Act comes into force, but not landed till afterwards. The clause referred to reads:

Where any new Customs import duty or new Excise duty is imposed, or where any Customs import duty or Exciso duty is increased, and any goods in respect of which the duty is payable are delivered after the day on which the new or increased duty takes effect in pursuance of a contract made before that date, the seller of the goods may, in the absence of agreement to the contrary, recover, as an addition to the contract price, a sum equal to any amount paid by him in respect of the goods on account of the new duty or the increase of duty, as the case may be.

"Key" goods arriving by parcel post that are presented by the postal authorities to Customs on or before September 30 will not be taxed. It is understood that very little delay occurs from the time they are received by the postal authorities and their presentation to the Customs.

The "Wiadomosci Farmaceutyczne," of Warsaw, the leading Polish pharmaceutical journal, reproduces in its number of September 1, 1921, a translation of the article on "The Santonin Industry," which appeared in The Chemist and Druggist of June 16, 1921.

Postage of Circulars.—The Incorporated Society of British Advertisers, Ltd., has suggested to the Postmaster-General that, should he be unable to restore the former rates for inland postage of printed matter, rebates should be granted to traders who hand in sorted circulars at post offices. Commenting on this resolution, "The Times" of September 24 gives an instance in which a Boulogne firm offered to print, fold, address, and post circulars at the rate of 4l. 5s. per 1,000, whereas in England the postage alone would be 4l. 3s. 4d.

Drug Index Number

One preparation shows a rise in September—ext. ergotæ liq.; decreases are shown in nine others. The item noticed in our issue of August 27 (p. 57) as being below the 1913 price is now duplicated with sodii benz. The items showing lower prices are: Acid. acetylsalicyl., bismuthi carb., ext. casc. sag. liq., hexamina, lin. tere-

binth., ol. morrh., phenacetin., sodii benz., and sodii salicyl. It will be interesting to note the incidence of the Safeguarding of Industries Act on the index of prices. Most of the items in the drugs section which have fallen have been synthetics, all of which are within the schedule printed in our last issue.

Drugs, Chemicals, and Galenicals

| C=cost : I=index. | 1913 | | Sept. 1921 Aug. 1921 | | 1 | | | | | 3007 | 1 | | Mar. 1921 | | | |
|--------------------------|----------------|------------|----------------------|---------------|---------|-------------|-------------|--------------|-------|---------|-------|---------|-----------|-------------|-------|---------|
| C=cost , 1=index. | | <u> </u> | Dept | . 1521 | Aug. | 1521 | July | 1921 | June | 1921 | мау | 1921 | Apri | 1 1921• | Mar. | 1921 |
| | Qty. | o. | σ. | I. | σ. | I. | O. | I. | O. | I. | O. | I. | o. | I. | O. | 1. |
| Ac. acetylsal, | 2 lb. | 88 | 160 | 181 | 176 | 200 | 176 | 200 | 176 | 200 | 176 | 200 | 144 | 164 | 160 | 182 |
| Bismuth, carb | 3 lb. | 308 | 495 | 160 | 553 | 166 | 513 | 166 | 。513 | 166 | 513 | 166 | 513 | 166 | 513 | 166 |
| Conf. sennæ | 4 lb. | 64 | 128 | 200 | 128 | 200 | 128 | 200 | 136 | 212 | 136 | 212 | 144 | 225 | 144 | 225 |
| Ext. casc. sag. liq. 1 | 6 lb | 88 | 190 | 216 | 210 | 2 38 | 232 | 264 | 232 | 264 | 232 | 264 | 232 | 264 | 232 | 264 |
| " cinch. liq | 1 lb. | 54 | 117 | 216 | 117 | 216 | 117 | 216 | 117 | 216 | 117 | 216 | 117 | 216 | 117 | 216 |
| " ergot, liq | 2 lb. | 198 | 344 | 173 | 278 | 140 | 300 | 151 | 300 | 151 | 300 | 151 | 344 | 173 | 344 | 173 |
| Ferr. amm. cit | 3 lb. | 57 | 171 | 300 | 171 | 300 | 180 | 315 | 180 | 315 | 192 | 337 | 192 | 337 | 192 | 337 |
| Hexamina | 4 02. | 15 | 34 | 22 6 | 38 | 2 53 | 44 | 2 93 | 42 | 280 | 48 | 320 | 48 | 320 | 48 | 320 |
| Inf. gent. co. conc | 12 lb. | 204 | 324 | 158 | 324 | 15 8 | 336 | 164 | 366 | 164 | 366 | 164 | 336 | 164 | 336 | 164 |
| Lin. camph | 5 lb. | 90 | 152 | 1 69 | 152 | 16 9 | 170 | 188 | 170 | 188 | 170 | 188 | 178 | 198 | 178 | 198 |
| " camph. amm. m | 8 lb. | 144 | 252 | 175 | 252 | 175 | 252 | 175 | 252 | 175 | 252 | 175 | 252 | 175 | 252 | 175 |
| " sapo. meth | 1 0 lb. | 120 | 512 | 179 | 215 | 179 | 215 | 179 | 245 | 204 | 245 | 204 | 245 | 204 | 245 | 204 |
| " terebinth | 6 lb. | 108 | 132 | 122 | 139 | 128 | 139 | 128 | 141 | 130 | 1 120 | 111 | 120 | 111 | 141 | 130 |
| Mag. carb. levis | 2 lb. | 22 | 28 | 128 | 28 | 128 | 28 | 128 | 28 | 128 | 28 | 128 | 28 | 128 | 28 | 128 |
| " sulph | 14 lb. | 14 | 66 | 471 | 66 | 471 | 66 | 471 | 66 | 471 | 66 | 471 | 66 | 471 | 66 | 471 |
| Ol. morrhuæ | 101b. | . 80 | 90 | 112 | 100 | 125 | 100 | 125 | 114 | 142 | 114 | 142 | 115 | 144 | 140 | 175 |
| Phenacetin | 4 os. | 18 | 42 | 233 | 46 | 255 | 48 | 271 | 56 | 311 | 60 | 333 | 60 | 33 3 | 60 | 333 |
| Phenazonum | 4 02. | 24 | 52 | 216 | 50 | 208 | 60 | 250 | 64 | 266 | 64 | 266 | 60 | 250 | 60 | 250 |
| Potas. brom | 4 lb. | 8 8 | 84 | 95 | 84 | 95 | 92 | 104 | 92 | 104 | 92 | 104 | 96 | 109 | 96 | 109 |
| ,, iod | 2 lb. | 298 | 456 | 153 | 456 | 153 | 456 | 15 3 | 456 | 153 | 456 | 153 | 456 | 153 | 456 | 153 |
| Quin. sulph | 4 ou. | 80 | 224 | 280 | 224 | 280 | 224 | 280 | 224 | 280 | 224 | 280 | 224 | 280 | 224 | 280 |
| Resorcin | 1 0%. | 5 | 13 | 260 | 14 | 280 | 14 | 280 | 16 | 320 | 16 | 320 | 16 | 320 | 16 | 320 |
| Sodii benz | 3 ол. | 13 | 12 | 92 | 15 | 115 | 15 | 115 | 13.5 | 104 | 13.5 | 104 | 15 | 115 | 15 | 115 |
| " salicyl | 4 lb. | 132 | 192 | 145 | 240 | 181 | 240 | 181 | 240 | 181 | 240 | 181 | 228 | 172 | 228 | 172 |
| Sp. chlorof | 2 lb. | 96 | 114 | . 1 18 | 114 | 118 | 127 | 13 2 | 127 | 132 | 127 | 132 | 127 | -132 | 127 | 132 |
| Syr. ferr. ph. co | 4 lb. | . 36 | 80 | 222 | 80 | 222 | 84 | 23 3 | 84 | 233 | 84 | 233 | 84 | 233 | 84 | 233 |
| " Eastonii | 3 lb. | 54 | 105 | 200 | 105 | 200 | 123 | 227 | 123 | 227 | 123 | 227 | 123 | 227 | 123 | 227 |
| Tr. chlor, et morph. '85 | 2 lb. | 80 | 115 | 143 | 115 | 14 3 | 1 15 | 143 | 120 | 150 | 120 | 150 | 120 | 150 | 120 | 150 |
| Ung. ac. borici | 7 lb. | 77 | 154 | 200 | 154 | 200 | 175 | 227 | 182 | 236 | 182 | 236 | 182 | 236 | 196 | 254 |
| " zinci | 4 lb. | . 88 | 88 | 100 | 88 | 100 | 100 | 1 1 3 | . 108 | 123 | 108 | 123 | 108 | 123 | 120 | 136 |
| *Index Number | 100 | | 188-1 | (334°6) | 193-2 (| 322'5) | 200-4 | (341.4) | 207.5 | (362°7) | 209.7 | (344°6) | 212.8 | (345.8) | 215-8 | (336.4) |

Surgical Dressings

| | 191 | 3 | Sept. | 1921 | Aug. | 1921 | July | 1921 | June | 1921 | May | 1921 | April | 1921 | Mar.] | 921 |
|------------------|--------|------|----------|-------------|----------|--------|-----------------|-------|----------|--------|---------|--------|----------|-------|-----------------|-------|
| | Qty. | O. | O. | I. | o. | I. | 0. | I. | O. | I. | O. | I. | o. | I. | O. | I. |
| Bandages | 144 | 1:44 | 260 | 180 | 260 | 180 | 316-8 | 220 | 316.8 | 220 | 316.8 | 220 | 316*8 | 220 | 316-8 | 220 |
| Gauze | ₹2 yd. | 72 | 230-4 | 320 | 230-4 | 320 | 230-4 | 320 | • 230-4 | 320 | 242*0 | 336 | 242*0 | 336 | 219-6 | 305 |
| Lint | 28 lb. | 460 | 1008 | 2 19 | 1008 | 219 | 1064 | 231 | 1064 | 231 | 1190.0 | 239 | 1190.0 | 239 | 1190-0 | 239 |
| " boric | 56 lb. | 624 | 1456 | 2 33 | 1456 | 233 | 1568 | 251 | 1568 | 251 | 1652.0 | 264 | 1668.0 | 267 | 1668-0 | 267 |
| Cotton wool | 84 lb. | 756 | 1512 | 200 | 1512 | 200 | 1512 | 200 | 1512 | 200 | 1680.0 | 222 | 1680.0 | 222 | 1680-0 | 222 |
| *Index Number | 100 | | 230-6 (4 | 06°6) | 230-6 (4 | 145°2) | 244·4 (4 | 45°2) | 244-4 (4 | 108.5) | 256.2 (| 102*4) | 256-8 (4 | 00°4) | 250·6 (4 | 05.8) |

^{*} Numbers for 12 months previously in parentheses.

September Drug Tariff

The following are the alterations for September in the Insurance Drug Tariff for England and Wales:

September Drug Tariff

The following are the alterations for September in the Insurance Drug Tariff for England and Wales:

Lower.—Acacine gummi pulv., 2s. 10d. lb.; acetum ipecac., 2s. 8d. lb.; acid. acetylsal. pulv., 5d. oz.; acid. boric. (crystals), 1s. 14d. lb.; acid. boric. pulv., 1s. 24d. lb.; acid. salicylic., B.P., 2s. 6d. lb.; acid. tannic., 7s. lb.; acid. salicylic., B.P., 2s. 6d. lb.; acid. tannic., 7s. lb.; acid. salicylic., B.P., 2s. 6d. lb.; acid. tannic., 7s. lb.; acid. salicylic., B.P., 2s. 6d. lb.; acid. tannic., 7s. lb.; acid. salicylic., 1s. 3d. oz.; amyli pulv. (maize), 5d. lb.; ag. anethic. coro., 13s. 5d. lb.; aq. anethic. coro., 1ss. 5d. lb.; aq. anethic. pile. acid. salicylic. Is. 3d. oz.; bism. cath., 1s. 8d. oz.; bism. salicyl., 1s. 3d. oz.; bism. subgal., 1s. 4d. oz.; bism. submit., 12s. lb.; borax pur. pulv., 58s. cwt.; butyl-chloral hyd., 1s. 9d. oz.; capsulæ creosoti mij., 2sd. doz.; chloroform. Inno., 4s. 4d. oz.; chloroform. Inno., 4s. 4d. oz.; bism. cath., 4d. oz.; chloroform. Inno., 4s. 4d. oz.; chloral hydras, 5d. oz.; chloroform. Inno., 4s. 4d. bc.; chloral hydras, 5d. oz.; chloral hydras, 5d. oz.; chloroform. Inno., 4s. 4d. bc.; chloral hydras, 5d. oz.; chloral hydr

Higher.—Aq. dest. 1s. 3d. gal.; aq. sambuci ex conc.; 21s. lb.; ext. ergotæ, 9s. 6d. oz.; ext. ergot. liq., 15s. 3d. lb.; inf. ros. acid. ex conc., 3s. 10d. lb.; menthol, 2s. 10d. oz.; ol. caryoph., 14s. 3d. lb.; ol. limonis, 6s. 2d. lb.; ol. lini, B.P., 6s. 8d. gal.; tab. ext. caser. sagr. gr. v., 2.0d. doz.; tab. santonin. gr. j., 19.2d. doz.; tab. santonin. B.P.C., 19.2d. doz.; tr. ergotæ ammon., 9s. lb.

Appointment of New Insurance Committees

The Ministry of Health has sent out the following letter regarding the appointment of pharmacists on Insurance Committees:

1. I am directed by the Minister of Health to state that the present members of Insurance Committees go out of office on October 31, 1921, and that arrangements are being

made for the appointment of new committees to hold office for a period of three years as from November 1 next. 2. I am to enclose herewith, for the information of the Pharmaceutical Committee, a copy of a tabular statement showing the number of representatives of the several classes persons to be appointed to the Insurance Committees to

of persons to be appointed to the Insurance Committees to hold office as from November 1 next.

3. The inclusion of pharmacists among the representatives to be appointed by the Minister is not prescribed by the terms of the Act or Regulations; but, in the view of the Minister, at least one pharmacist of experience should be included in the membership of each Insurance Committee.

4. It will be observed, therefore, as indicated in column 7 of the tabular statement, that the Minister proposes to appoint one pharmacist to be a member of all Insurance Committees whose total membership ranges from twenty to thirty-five members, and two pharmacists in the case of those Committees whose total membership is fixed at the maximum number of forty (i.e., the Insurance Committees for the Counties of London, Lancashire, Middlesex, Yorkshire (West Riding), and the County Borough of Birmingham).

5. I am to request that the Pharmaceutical Committee will be good enough to suggest the name of one pharmacist (or two in the case of the Committees named above) for the

(or two in the case of the Committees named above) for the Minister's consideration.

6. The Retail Pharmacists' Union are also being asked to suggest a person for appointment by the Minister, and on receipt of the suggestion of your Committee and that of the Retail Pharmacists' Union the Minister will make the

necessary appointment.

7. It will be appreciated that the Minister must not be understood as undertaking to accept any nomination.

8. It is hoped that in considering the matter the Committee will bear in mind that what is sought is the appointment of a pharmacist of experience, who may be expected to take a broad view, in the public interest, of matters arising out of the administration of medical benefit generally, and

out of the administration of medical benefit generally, and not a representative of purely professional interests.

9. In order to enable the Minister to consider the nominations and make the appointments before the new Committees take office, it is requested that, if possible, the name of the gentleman suggested for appointment may be forwarded to the Department on the enclosed form not later than September 30.

Statement showing the representation of the several classes of persons to be appointed to Insurance Committees in the manner (except as to column 7) provided by Section 59 (2) of the National Insurance Act, 1911, as amended by Section 3 of the National Health Insurance Act, 1921, and Regulations made thereunder.

| Total No. of Members of Com- mittee | Represent t tives of Insured Persons | Apptd. by O uncil under 59 (2) (b) of Natl. In- surance Act, 1911 | Apptd. by local Medical Committee | Fractition r apptd. by Council under 59 ()(d) of Natl. Insco. Act 1911 | 1 1/ | pointed linister Health har- macists | |
|---|--|---|-----------------------------------|--|------|--|-----|
| (1) | (2) | (3) | (1) | (5) | (6) | (7) | (8) |
| 20 | 12 | 4* | 1 | 1 | 1 | 11 | |
| 25 | 15 | 5* | 1 | 1 | 1_ | 1 | 1_ |
| 30 | 18 | 6 | 2 | 1 | 1 | 1 | 1_ |
| 35 | 21 | 7† | 2 | 1 | 1 | 1 | 2 |
| 40 | 24 | 8† | 2 | 1 | 1 | 2 | 2 |

* Including at least one woman. + Including at least two women.

QUININE ANALYSES.—The Kina Bureau in Amsterdam has decided to recognise as co-equal with its own analyses, the analyses undertaken by the Government cinchona test station of Tjinjirœan. The analyses and the results obtained by the latter institution will, therefore, be binding on both producers and manufacturers, in the same way as those carried out by the Kina Bureau.

Insurance Act Dispensing

A Record of matters concerning Chemists' interests in the National Health Insurance Acts

Reports from Local Centres **ENGLAND**

Devon.—A meeting of the Pharmaceutical Committee was held at Exeter recently, Mr. Murray T. Foster presiding. Mr. John Taylor was co-opted to a vacant seat on the Committee, and it was resolved to suggest the appointment of Mr. Rowsell and Mr. Taylor to the new Insurance Committee for Devon. The report of the Central Checking Bureau for March was approved.

London.—A meeting of the Pharmaceutical Committee was held on September 20, Mr. J. Humphrey (chairman) presiding. A short discussion took place on the Dangerous Drugs Act Regulations, especially concerning Insurance prescriptions. Permission granted by the Insurance Committee to a doctor to dispense for his patients has been withdrawn. The report of the Central Checking Bureau showed that the margin of error for May was 0.05 per cent. and June 0.03 per cent. The secretary gave particulars of dispensing for May and

| | | | May | \mathbf{June} | |
|---------------------------|----------|-----|---------------|-----------------|----|
| Total cost | *** | £16 | ,210 14s. 3d. | £13,995 10s. | 4d |
| Number of scripts | ••• | | 333,893 | 288,999 | |
| Average cost per script | | ••• | 11.65d. | 11.62d. | |
| Number of prescriptions | | | 413,568 | 360,250 | |
| Average ingredient cost | | | 3.84d. | 3.78d. | |
| Average dispensing-fee c | ost | | 5.57d. | 5.54d. | |
| Average total cost per pi | rescript | ion | 9.41d. | 9.32d. | |

The Ministry of Health indicated that two pharmacists would be appointed as members of the London Insurance Committee. The Committee decided to nominate Messrs. A. R. Melhuish and the secretary, Mr. G. A. Tocher, for appointment by the Minister of Health. The result of inquiries made regarding alleged inaccurate dispensing was referred to a small Committee. Appropriate action had been taken by the Insurance Committee regarding the issue of irregular and incomplete prescriptions by a doctor on the panel. The secretary also gave the result of inquiries into a series of irregularities of the dispensing service provided by a firm of panel chemists in three industrial districts of London. This matter will be further considered at the next meeting. The secretary's report was adopted. Regarding the pharmaceutical service in a district in the south-western area, the secretary was instructed to make inquiries.—A meeting of the Insurance Committee was held on September 22, Sir Thomas Neill (Vice-Chairman) presiding. The Finance Sub-Committee recommended the payment of accounts amounting to 36,4181. 68. Among these was 29,7021. 16s. 6d. to chemists for the medical year 1920-21. The accounts

Manchester.—A meeting of the Pharmaceutical Committee was held recently, Mr. F. W. Bates, J.P., presiding. The Committee were pleased to see that an effort was being made by the Retail Pharmacists' Union to increase the pharmaceutical representation on Insurance Committees, and the following resolution has been forwarded to the Union: "The Manchester Pharbeen forwarded to the Union: "The Manchester Pharmaceutical Committee consider the present pharmaceutical representation on the Insurance Committee inadequate and inequitable, and urge the Union to use its best endeavours to have the number of its representatives increased." The Committee's present representative is Mr. J. H. Nidd, and it was unanimously agreed to submittee the best constants. At Harshbarg as the name of the hon secretary, Mr. A. Hershberg, as an additional representative. A letter from the Panel Committee stated that it was hoped shortly to adopt the C.L. Formulary. The suggestion from the Panel Committee of the more general use of a label indicating the number of doses in each bottle, and recommending the use of a graduated medicine glass to ensure correct dosage, was considered. An early opportunity will be taken to submit the recommendation to the panel.

Preston. — A report submitted to the Insurance Committee on September 15 showed that 1,307l. had been spent on prescriptions during the three months ended June 30, of which sum 746l. represented dispensing-fees and 56ll. cost of drugs. The average cost of ingredients was 4.16d. per prescription; dispensing-fee, 5.56d.

Smethwick.—At a meeting of the Insurance Committee, held on September 27, the various sub-committees presented their reports from which the following is abstracted. The Medical Benefit Sub-Committee reported that the following had been elected to the Pharmaceutical Committee: Messrs. W. W. Adams, W. C. Brown, H. N. Hodgetts, W. Kelsey, H. M. Tranmer, E. B. Whitehouse. Statistics have been received from the priging office relative to the prescriptions issued by the pricing office relative to the prescriptions issued by practitioners during the quarter ended March 31, showing:
Number of prescriptions

24,805 Cost of ingredients £357 18 6 Cost of dispensing-fees ... £525 11 10 ... Average ingredient cost 3.46d· Average dispensing-fee ... 5.09d.

The Panel Committee reported on the result of their scrutiny of prescribing of practitioners during 1920. No cases of excessive prescribing have been disclosed. The Sub-Committee recommend that the report of the Panel Committee be approved. The clerk was requested to circulate to doctors and chemists a memorandum setting out the provisions of the Dangerous Drugs Act Regulations. In the Finance and General Purposes Sub-Committee report the cash statement showed expenditure under Drug Fund, 1920, amounted to 395*l*., and 1921, 2,004*l*. 1s. 8*d*. Payment to chemists was as follows: April balances—May advances, 287*l*. 4s. 8*d*.; May balances—June advances, 256*l*. 9s. 11*d*.; June balances—July advances, 233*l*. 13s. 5*d*.; July balances—August advances, 244*l*. 1s. A report was also printed, showing the administration of medical benefit from 1912 to 1921. The following statement is for the years 1917 to 1920:

1917 1918 1919 Number of prescriptions ... 74,110 79,649 76,889 88,070 Average cost of ingredients ... 2:66d. Average dispensing fee ... 2:97d. 2.99d. 3·13d. 3.73d. 3.83d. 3.40d. 5.08d. Average cost per insured person 15 98d. 18 80d. 19 08d. 25 74d. Average number of prescriptions issued to each insured . 2.84

The amount expended upon supply of drugs and appliances to insured persons from 1913 to 1920 is shown as follows:

2.94

person

2,981 10 8 2,268 11 5 1,825 15 9 1,877 11 1 1,766 18 0 2,149 16 6 2,262 11 6 3,289 17 10 1913 1917 1914 ... 1818 ••• 1915 1919 1916 1920

South-East Pricing Committee. The annual port of the Joint Committee for Pricing Prescriptions for the South-Eastern Division shows that the total number of prescriptions dealt with in 1920 was 3,180,173, of which 3,056,385 were Insurance prescriptions and 123,783 from the Ministry of Pensions. The total value was 141,601*l*. 8s. 8d., and chemists' accounts numbered 21,984. There were 30,038 prescriptions chargeable to the Sanatorium Benefit Fund, total value being 2,416l. 7s. 4d. The increase over 1919 was 396,617. The thereof, for the last five years was as follows: Scripts, 11,274,490; prescriptions, 13,343,317; value, 437,484. 19s. 2d. The average total cost per prescription 437,484l. 19s. 2d. The average total cost per prescription ranged from 6.10d. in 1916 to 10.3d. in 1920. The number of "urgent" prescriptions during 1920 was 8,084, and the value of "urgent" fees 170l. 1s. 2d. The Pharmaceutical Society check for the year showed: Number of prescriptions checked, 278,530; value, 11,458l. 0s. 5d.; percentage of error, 0.033. A total of 21,984 chemists' accounts had been certified for payment without discovering any error. The number of doctors who issue prescriptions in the South Eastern Division is 1,937, the prescriptions in the South-Eastern Division is 1,937, the

number of insured persons on these lists is 1,079,354, while the number of chemists under contract with the Committees is 1,294. Among the statistical prescription data for the year is a table showing the total and average cost per prescription and per person, together with the frequency per insured person. The average ingredient price was 5.3d., as against 5d. the average dispensing fee. Of the twelve places within the combined area, the highest frequency per insured person was at Brighton and Hastings, and among the lowest was Southsea.

York.—At a meeting of the North Riding of Yorkshire Insurance Committee, recently, Mr. T. Blenkinsop drew attention to the report on the prescriptions and the cost per insured person. In 1916, 114,609 prescriptions were made up at an average cost of 21.27d. per insured person, and an increase had taken place every year, including 1920, when the number of prescriptions was 133,599, at an average cost per insured person of 30.80d.

SCOTLAND

Drug Accounts Committee.—At the annual conference of Insurance Committees, which was held at Stirling on September 23 and 24, the Drug Accounts Committee submitted a report on its work. The following is an abstract: The Bureau prepared, for drugs and appliances supplied to insured persons, a total of 17,982 accounts. These, which represented over seven and a-half

million items, were passed by the Government auditor. In addition, the Committee, at the request of the Ministry of Pensions, undertook the pricing of prescriptions issued at the various clinics in Scotland. This work takes the place of the work formerly undertaken for the Ministry of Munitions at Gretna. On the adoption of the National Health Insurance Act in the Isle of Man, the Manx Health Insurance Society requested the Drug Accounts Committee to price the prescriptions issued to insured persons in that island, and this was agreed to. The arrangement commenced with the prescriptions issued in January, 1921, and for pricing purposes the Scottish Drug Tariff has been adopted. As the cost of drugs prescribed for tuberculous insured persons is now met by the local public health authorities, an arrangement has been made with a number of these authorities to price and scrutinise the prescriptions. During the present year there has been a downward tendency in the price of drugs and appliances. During the period from January to June the cost of the drug bill for Scotland was 63,516l. 19s. 2½d., which is 14,842l. 18s. 9d. less than for the same period of 1920. A contributing factor in the lower cost was the smaller number of prescription forms issued, which showed a decrease of 51,383 during this period. The average price per form was 14.17d., which is 2.51d. less than for the same period of 1920. The following comparative statement for the period from January 1915 to June 1921 shows the highest and lowest tariff price of certain drugs and appliances commonly prescribed:

| Drug or appliance | | 1915 | 1916 | 1917 | 1918 | 1919 | 1920 | (January to June) 1921 | Extreme fluctuations |
|--|---|--|---|---|---|---|---|---|---|
| Acid. Acetylsal. Benz. Lard Bromide Potass. Camphor Cod-liver Oil Emul. Cod-liver Oil Hypo. Liq. Ext. Cascara Liq. Ext. Ergot Lin. Belladonna Lin. Camphor Menthol Olive Oil Permang. Potass. Phenacetin Phenacetin Tablets Phenacetin Tablets Phenacone Rochelle Salt Salicin Sandalwood Oil Paraffin Oint. Sulph. Quinine S.V.R. Tinct. Orange Turpentine Bandage, 2-in. White Cotton Wool Gauze, Unmed. | oz. | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ |

In ascertaining to what extent appliances, supplied direct to insured persons or issued to practitioners for emergency use, were chargeable to the Drug Fund, an examination was made of the 138,361 prescriptions issued in June 1921, and the percentage was found to be 8.71, or 709l. 1s. 5d., out of a total of 8,138l. 10s. 10½d. The following are the particulars of the examination: Bandages, all kinds (69,001½ yds.), 291l. 2s. 11½d.; gauzes (3,953½ yds.), 64l. 1s. 1½d.; lints (863 lb. 7½ oz.), 171l. 1s. 11d.; wools (1,011 lb.½ oz.), 113l. 12s. 5½d.; gutta-percha tissue and similar materials (364,541 sq. in.), 39l. 14s. 7d.; adhesive plaster, spools (1,070½ yds.), 26l. 4s. 4d., and on holland (4,003 sq. in.), 1l. 11s. 4d.; sce-bag (one), 3s. 1½d.; splints (arm) (four), 2s. 8d.; splinting, Gooch's (1 yd.), 18s. 8d.; catheters (nine), 8s. 3d. The number of prescription forms involving a disallowance or postponement, while about 3 per cent. less than last year, still remains unnecessarily large, especially since the majority of these could be eliminated by care on the part of the practitioner and chemist. During the year 3,404 irregular prescription forms were disallowed,

and 1,551 proprietary ingredients were also disallowed. With regard to the stock orders to practitioners for emergency use, 1,765 disallowances were made. The forms postponed in respect of being unsigned by the practitioners

| Year | Forms allowed | Value | Average price | Cost of Bureau payable by Insurance Committees | Cost per 100 forms; pricing, preparing accounts, etc. | Ratio of cost to value of prescriptions |
|--|--|--|------------------|---|--|---|
| 1915 1916 1917 1918 1919 1920 | 2,220,219 1,938,523 1,805,603 2,001,296 2,008,537 2,100,893 | $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 9.96 | 3,583 2 2 | d. 34·50 42·75 34·25 37·67 42·81 41·99 | % 3·54 4·30 3·54 3·27 3·42 2·54 |

numbered 1,975. The routine work of keeping records of these forms is considerable. The number of prescription

forms was 2,100,893, costing 144,467l. 18s. 9d. The cost of drugs and appliances for 1919 was 104,625l. 13s. 42d., so that the cost for 1920 is 39,842l. 5s. 4d. greater, or an increase of 38.08 per cent. Of this increase, approximately 26,0001. is due to increased dispensing-fees. The small table on the previous page shows the number, value, and average price per prescription form for the whole of Scotland during the period from January 1915 to December 1920; also the cost of the Bureau which is payable by Insurance Committees.

Glasgow. - The Panel Committee recently undertook an investigation into the prescriptions of those doctors whose costs seemed unduly high. The standard taken was 3s. per person per year. As a result the Committee recommended that two doctors should each be surcharged 25t. for excessive ordering of stock; that one doctor be surcharged 10l. for the reckless and extravagant use of drugs; that one doctor be surcharged 10l. for prescribing in such a manner as to cause needless expense to the Drug Fund; that one doctor be surcharged 51. for the excessive use of flavouring agents and costly liniments; that one doctor be surcharged 51. for the excessive use of malt-and-oil. and for prescribing in such a way as to cause needless expense to the Drug Fund; that one doctor be surcharged for the excessive use of flavouring agents; and that thirty-five practitioners be written to pointing out the reasons for their high costs. The Medical Benefit Committee accepted the report, and adopted the recommendations of the Panel Committee.

Dunfermline.—At a meeting of the Burgh panel chemists held on September 20, the members of the Pharmaceutical Committee were re-elected, with the exception of Mr. David Gilmour, who withdrew in favour of his son, Mr. John Gilmour. The new Committee consists of Messrs. J. H. Fisher, A. Macdonald, J. A. Seath, John Gilmour, and Robert Robertson.

Scottish Association of Insurance Committees

At the annual meeting of the Scottish Association of Insurance Committees, held at Stirling on September 23 and 24, close on 200 delegates were present, and the chair was occupied by Mr. Joseph Johnstone, M.P., Renfrew. Provost McCulloch, on behalf of the Town Council and citizens, accorded a civic welcome to the delegates. Mr. P. F. Roswell, J.P., President of the English Association of Insurance Committees, remarked that they had had lately a half-promise from the Ministry of Health that there might be an inquiry into the working of National Health Insurance. He was hopeful that the inquiry would take place, and felt assured that after inquiry National Health Insurance would stand on a higher basis than at present. Mr. Johnstone, in his presidential address, re-called the early opposition to the National Health In-surance Act, and said that the time had come when they should seriously consider the setting up of a State medical service. There were many objections to a State bureaucracy being enthroned, but under the panel system they already had a State service. In a long report by the Executive Committee the first item was the drug-fund. The total drug-fund for Scotland amounted to 159,368l. Of this sum 6,604l, was transferred to the special drugfund, leaving a sum available for payment to committees of 152,764l. The deficits amount to 7,957l. 14s. 8d. The difference between the special drug-fund and the total amount of the deficits was 1,353l. 14s. 8d. A close scrutiny of the figures for each area revealed anomalies for which there appeared to be no reasonable explanation. Aberdeen and Dundee, with insured populations of about 70,000 and 90,000 respectively, had deficits of 1,039l. and 1,865l. respectively, while Edinburgh, with a population almost equal to the combined populations of Aberdeen and Dundee, showed a surplus of 2,598l. A great deal of unnecessary and extravagant prescribing still took place. Mr. Alexander Clark, Aberdeen, moved that the conference, having considered the serious discrepancies in the drug-fund, urge the Scottish Board of Health to remove the existing anomalies and secure uniformity in the method of prescribing. After discussion, the report was adopted by a large majority. Mr. Martin Meldrum, Ph.C., read a paper on "Economy in the Drug-fund."

Trade-marks Applied for

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration, see "The Chemist and Druggist Diary," 1921, p. 300.

(From "The Trade-marks Journal," September 14, 1921.)

"Noxo"; for chemicals (1). By Newton Chambers & Co., Ltd., Thorncliffe Ironworks, near Sheffield. 416,270. "Sierom"; for all goods (1). By Morris & Co. (Chester), Ltd., 135 Foregate Street, Chester. 416,907. (Asso-

Ltd., 130 Foregate Sector, clated.)

"ZONITE" on label device; for a disinfectant and deodoriser (2). By the Cooper Medicine Co., 301 East First Street, Dayton, Ohio, U.S.A. 412,790.

"ZYXT"; for chemicals (2), medicinal chemicals (3), goods (47), perfumery, etc. (48), and for soap (50). By John Knight, Ltd., Silvertown, London, E. 16. 414,253/234/ (47), perfumery, etc. (48), and for soap (50). By John Knight, Ltd., Silvertown, London, E. 16. 414,233/234/235/236/237. (Associated.)

"CHAMCO" on device of fish; for non-poisonous disinfectants (2). By E. Chamberlin, 48 Hopedale Road, Charlton, London, S.E. 7. 415,073.

"Bonisan"; for all goods (2), (3), (11), (44), and (48). By Taylors' Drug Co., Ltd., 347 Burley Hill, Leeds. 416,835/836/837/839/840. (Associated.)

"Hydrox"; for medicated bath salts (3). By R. H. Abbley and G. Elliott, Bentley's Yard, Middle Street, Stockton-on-Tees. 413,648. (Associated.)

"Bowe Bells"; for medicated soap (3) and for perfumery, etc. (48). By E. Cook & Co., Ltd., Bow, London, E. 3. 415,206/208. (Associated.)

"CLIMACTONE"; for a medicine for nervous disorders (3). By F. G. Small, 1 Marshall's Road, Sutton, Surrey, 416,305.

"CLIMACTONE"; for a medicine for nervous disorders (o). By F. G. Small, 1 Marshall's Road, Sutton, Surrey. 416,305.

"Pwopwo"; for medicinal chemicals (3). "Golygol"; for medicated bougies (3). By Société Anonyme des Produits Chimiques & Pharmaceutiques "Meurice," 68 Rue de Berkendael, Brussels, Belgium. 416,649/550.

"Normosal"; for medicinal chemicals (3). By Institut Séro-Thérapique et Vaccinal Suisse Berne, Laupenstrasse 4a, Berne, Switzerland. 416,862.

"Glycovin"; for a medicated wine (3). By T. H. A. Knight. 54 High Street, Stevenage, Hertfordshire.

'GENCOVIN'; for a medicated wine (3). By T. H. A. Knight, 54 High Street, Stevenage, Hertfordshire. 416,918.

ATOLAX,'' "MALOBIN,'' and "FICASE"; for medicinal chemicals (3). By John Bell & Croyden, Ltd., 50 Wigmore Street, London, W. 1. 417,172/174/175.

CUTISAVA''; for indiarubber surgical gloves (11). By "Rapson" Automobile Patents, Ltd., 35 New Cavendish Street, Great Portland Street, London, W. 1. 416,276 416,276.

"TUDENSUP"; for dental appliances, etc. (11). By Tubbs & Co., Ltd., 34 Oxford Street, London, W. 1. 416,457. "Hyglenof"; for perfumery, etc. (48). By Société Anonyme Hygienof, 13 Rue de Londres, Paris.

415,384.

"MINOVIUM"; for toilet preparations (48). By the Oliveum Co., 199 Hoe Street, Walthamstow, London, E. 17. 416,610.
"Gensigalex"; for perfumery, etc. (48). By General Exporters and Importers, Ltd., 12 Aldersgate Chambers, 9 Goswell Road, London, E.C. 1. 417,057.

(From "The Trade-marks Journal," September 21, 1921.) "ESFET" on diamond shape; for chemically treated boot socks (2). By G. G. Schobert, 302 Brixton Hill, London, S.W. 2. 416,267.

"INEDIL"; for all goods (2) and (3). By Freedom Soap Co., 1 Rocky Lane, Broadgreen, Liverpool. 416,936/937. (Associated.)

"REEKATED"; for veterinary preparations (2). By Millais & Co., 29-30 Cock Lane, London, E.C. 1. 416,984.

"GOITREX"; for medicines (3). By B.P.G. Co., 119 Palatine Road, Northenden, near Manchester. 413,319.

"ANKELLINE"; for a preparation for reducing swollen ankles (3). By Regent Chemical Co., 152 New Bridge Street, Newcastle-on-Tyne. 415,085.

"NIPOLIA"; for all goods (3). By Lucy M. Russett, 21 Union Road, St. Philips, Bristol. 416,201.

"KIJJA" on oval devices; for medicinal chemicals (3) and for perfumery, ctc. (43). By Tokalon, Ltd., 212-214 Great Portland Street, London, W. 1. 416,548/549/550/551. (Associated.)

"GLORLAX"; for medicinal chemicals (3), By Silberberg Bros., 79 Christian Street, St. George's, London, E. 1. 416,870. "ESFET" on diamond shape; for chemically treated boot socks (2). By G. G. Schobert, 302 Brixton Hill, London,

Hosen, 16 Christian Baros, 416,870.

"Sedalin"; for medicinal chemicals (3). By John Bell & Croyden, Ltd., 50 Wigmore Street, London, W. 1.

417,173.
"TAKALAX"; for medicinal chemicals (3). B
Drug Co., Ltd., 347-359 Burley Hill, Leeds. 417,463.

Safeguarding Key Industries

CUSTOMS PROCEDURE

In their latest Bulletin, dated September 27, the British Chemical Trade Association gives the following official details regarding the procedure to be observed by importers:

Procedure at Customs.-We recognise the fact that in the majority of cases this work will be carried out by the importer's shipping agents, but on certain points it is advisable to be fully conversant with Customs requirements.

Importation of Goods scheduled in the "Key" List .-As already stated, the duty is calculated on the c.i.f. British port value of the goods. Importers will be required to furnish Customs with the following evidence of value:
The foreign exporter's invoice of goods. Freight notes
and other documents showing the charges for freight and
insurance. A copy of every invoice must be supplied for retention by Customs. Invoices, etc., in foreign currencies are convertible into sterling at the rate of exchange on the date the importing ship is reported, not on the date of the contract.

Declarations of Entries .- Declarations will be accepted from the actual importer under the usual conditions. made by shipping agents the importer should furnish them with a letter of authority signed by an authorised person of the company. Letters of authority need not be sealed with the company's seal.

Bonded Warehouses .- Goods liable to the "key" duty cannot be deposited in bonded warehouses, and the duty must be paid on the importation of the goods; exceptions -"key" goods also liable to other import duties, such as saccharin.

Contracts.—Attention is drawn to the provisions of Section 10 (1) of the Finance Act, 1901, which reads as follows:

Where any new Customs import duty or Excise duty is imposed, or where any Customs import duty or Excise duty imposed, or where any Customs import duty or Excise duty is increased, and any goods in respect of which the duty is payable are delivered after the day on which the new or increased duty takes effect in pursuance of a, contract made before that day, the seller of the goods may, in the absence of agreement to the contrary, recover, as an addition to the contract price, a sum equal to any amount paid by him in respect of the goods on account of the new duty or the increase of duty as the case may be. increase of duty, as the case may be.

Goods scheduled arriving by Parcels Post.-It is generally well known that parcels of chemicals arriving from the Continent are held up by the postal authorities for from seven to ten days before they are delivered. We have obtained the following official ruling on this matter. On the arrival of such parcels the postal authorities preent them to Customs—it is understood there is no delay—and that all parcels of dutiable products so presented to the Customs up to September 30 will not be taxed, although their delivery to the importer may not be effected for some days after the Act comes into force.

COMPOUNDED ARTICLES.

When the Act is in operation one of the most controversial points will centre round compounded articles, and at what stage a dutiable article or a compounded article has "lost its identity" will be difficult to decide. Mr. W. J. W. Woolcock, M.P., in an article in "The Times Trade Supplement" on the operation of the Act, deals with this problem at length. He says:

No attempt has been made to fix any definite percentag No attempt has been made to fix any definite percentage of dutiable article in the compound article which would bring it within the Act, and the doctrine of *De minimis non curat lex* will no doubt apply. But granted the dutiable article is present in the compound in appreciable quantity, the problem is to determine whether it has lost its identity, and a rough test would seem to be to ascertain whether it can be separated by physical means, such as sifting, solution, or filtration. tion, or filtration.

Another test would be whether the compound article ceuld be used for the same purpose as the dutiable article. An attempt is sure to be made to import free of duty a dutiable article eompounded with some inert diluent, which would allow the eompound article to be used (of course, in larger quantities) in place of the dutiable article. Here

again it seems clear that the article cannot be said to have lost its identity. The only really clear case of loss of identity appears to be where a chemical substance otherwise dutiable has by a chemical process been converted into another substance from which it can be recovered only by chemical means. The Act provides that disputes whether an article has lost its identity shall be determined by a referce as in the case of disputes as to articles being articles within the schedule. To dogmatise on this thorny question is, to say the least of it, premature.

Rules of Procedure for Committees.

The Board of Trade have made the following rules of procedure for committees under Part II. of the Safeguarding of Industries Act, in pursuance of Section 7 (3):

1. If the Board of Trade decide to refer any matter under 1. If the Board of Trade decide to refer any matter under Section 2 of the Safeguarding of Industries Act, 1921, to a committee constituted in accordance with Section 7 of the Act, the Board will as soon as may be after the appointment of the committee publish in the London, Edinburgh, and Dublin "Gazettes," and in such other manner as the Beard think proper, a notice stating:

(a) The terms of reference to the committee;

(b) The time and place at which the committee propose to hold their first sitting for the taking of evidence, which shall be not less than fourteen days after the date on which

shall be not less than fourteen days after the date on which publication of the notice is completed.

2. The Board of Trade will appoint a chairman of the committee, who shall preside at any meeting of the com-

inittee 3. The sittings of the committee at which evidence is taken shall be held in public, except that the committee shall refuse to allow the public to be present at any proceedings of the committee during the hearing of evidence on matters which, in their opinion, are of a confidential character.

4. The committee shall be at liberty to take evidence in such manner as they shall think fit.

5. Any person desiring to give evidence shall give notice to the secretary of the committee, and shall furnish, with his notice, a statement in writing of the evidence he proposes to give.

6. The committee shall be at liberty to decide whether they will or will not receive the evidence of any person who desires to give evidence, and their decision shall be final.

7. A witness whom the committee desire to hear may, if he wishes, be accompanied by solicitor or counsel, who may address the committee on his behalf, but no witness shall be examined or cross-examined except by the members of the committee.

THE Japanese Consul in Cologne has informed the German Press that the medical faculties of the Japanese Universities have placed the sum of 450,000 marks at the disposal of German and Austrian medical faculties.

LEECHES NEAR MOUNT EVEREST.—An instalment of an account of the Mount Everest Expedition's adventures appearing in "The Times" of September 23 contains the following passage: "There was a fine open space for camping here, but the grass was long, and, on having it cut, we found it alive with leeches. Dry bamboos were quickly collected and burnt over the spots on which we were to pitch cur tents, but, despite these precautions, the whole evening was spent in picking off leeches from our clothes and hands, necks, and even plates of food, as they climbed the tent walls and dropped down on us. They seemed an especially hungry genus and had never before tasted European blood. They also hold the record' for height, being found up to 12,000 ft."

EXTERMINATION OF MOSQUITOES.—Details are given, in "The Morning Post" of September 16, of the method of destroying the larvæ of mosquitoes in Hayling Island. "The number of larvæ in a foot run of the first ditch inspected was counted and found to be rather over 500. The length of this ditch was 200 yards, so that the number of larvæ contained in it could not have been less than 300.000. The neighbouring ditches were infested as thickly as the first one. By means of an ordinary hand sprayer the surface of all these ditches was covered with paraffin, the entire work occupying less than two hours. Next morning careful examination proved that not a single larva was alive. The total water space treated was approximately seven times that of the first ditch. . . ."

Trade Report

The prices given in this section are those obtained by importers or e prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges bave to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, September 29.

Business in the Mincing Lane produce markets shows signs of improvement here and there, with buyers showing more disposition to place orders. It is to be hoped that this development will continue. Sir Alfred Mond has declared that "a good deal of the present trouble is psychological. People are holding back for the bottom of the market." This has no doubt been reached in many items of produce, but several are still abnormally dear. The changes in value of crude drugs include a decline in ergot. Myrrh and senna are selling at easier rates. Senega is firm, with again higher prices asked in America. Cardamoms have been in better demand since the auctions. Balsam Peru is steady; lycopodium is tending easier.
Menthol and camphor are quiet. Canary seed is cheaper. Turpentine, linseed oil, and mercury are lower. Peppers are easier.

| Higher | Firmer | Easier | Lower |
|--|--|---------|---|
| Acetanilide Acetic acid Arsenic Aspirin Calcium lactate Methyl salicylate Methyl sulphonal Methylene blue Nutmers Phenazone Silver nitrate Synthetic perfumes erpineol | Amidopyrin Ammon, bromide Benzoic acid Camphor oil (Jp.) Caraway oil Clove oil Cottonseed oil Formaldehyde Ginger Lithium carb, Phenolphthalein Potash bromide Rape oil Sassafras oil Sodium bromide Sodium prussiate Wormseed oil | Codeine | Canary seed Frgot Lead acetate Linseed oil Mercury Mustard seed Myrrh Sodium nitrate Sodium sulphite Turpentine |

Cablegram

NEW YORK, September 28.—Business is fair. Bromides are lower, ammonium offering at 29c., potassium at 19c., sodium at 20c., and strontium at 29c. Potassium iodide is also cheaper at \$2.60. Bismuth salts are lower, sub-carbonate offering at \$1.85, subgallate at \$1.85, and subnitrate at \$1.75 per lb. Copaiba has been reduced to 30c. Senega is higher at 75c., and cascara sagrada has also advanced to 11c. per lb.

Crude Drugs, etc.

ALOES.—Cape remain slow, good to fair firsts offering at 42s. 6d. to 37s. 6d., good seconds at 35s., and thirds at 32s. 6d. per cwt. Fine, hard, bright Socotrine in cases has been sold at 10t. per cwt.; and fair dull is offered at 10t. per cwt. good pello livery offering at 90. 5s. Curação is unaltered, good pale livery offering at 82s. 6d., fair at 77s. 6d., and bright capey at 65s. per cwt.

The exports from the Union of South Africa during June 1921 amounted to 31,242 lb. (1771.), against 182,912 lb. (4,3681.) in June 1920. During the six months ended June 30, 1921, the exports were 75,323 lb. (6461.), against 423,533 lb. (8,8871.) for the corresponding period of 1920.

Antimony.—The demand is rather lifeless, at about previous rates for foreign regulus and at upward of 251. c.i.f. United Kingdom. Offers from China are not coming along at all freely, holders there being, of course, influenced by the further rapid rise in the price of bar silver and the consequent higher exchange. Crude is called

nominally 16l. c.i.f. and spot 17l.

BALSAMS.—Peru is firm on the spot at about 8s. per lb.; tolu is unchanged at 1s. 7½d.; Copaiba, B.P., is unchanged, with open quotations at 1s. 10d., but in some directions this figure is being shaded.

BUCHU.—Previous prices are maintained, good to fine green round offering at from 5s. 9d. to 6s., green longs at 5s. 6d., and ovals at 4s. 9d. per lb.

The exports from the Union of South Africa during June 1921 amounted to 7,713 lb. (1,138*l*.), against 14,950 lb. (7,114*l*.) for June 1920. During the six months ended June 30, 1921, the exports were 60,396 lb. (10,430*l*.), against 87,469 lb. (37,797*l*.) for the corresponding period of 1920.

CAMPHOR (CRUDE).—Chinese on the spot is quoted at 2s. 10d. per lb., and to arrive at 2s. 10d. c.i.f.

CAMPHOR (REFINED) continues quiet, with Japanese refined 2½-lb. slabs offering at 3s. 11d., and Chinese at 3s. 9d. per lb. on the spot. To arrive? October-November shipment, 3s. 10d. c.i.f. is quoted for Japanese or Chinese.

CARDAMOMS.—The better grades have been in fair demand since the auctions. Bold Ceylon-Mysore have been sold at 5s, 3d, down to 2s, 10d, per lb, for medium pale Mysore. Decorticated seed has been sold at 2s, 3d, for good.

CASCARA SAGRADA.—Our cable advice shows a slight advance; spot prices are unchanged at from 80s. to 82s. 6d. per cwt.

CHAMOMILES.—No further business appears to be in progress, and the price of Belgian is nominal. Brown old crop have been sold at 170s. per cwt. on the spot.

Ergor is again tending lower, with spot sellers of Spanish or Portuguese at from 5s. to 5s. 3d. per lb.

GLUCOSE is easier, water-white for September-October shipment offering at 28s. 6d. per cwt., duty paid, landed

HEN YOLK is quiet, with Chinese prime liquid offering at 110s. per cwt. on the spot and at 95s. c.i.f. for September-November shipment. Dried yolk is 3d. to $3\frac{1}{2}d$., sprayed whole egg 8d., and native dried whole $4\frac{1}{2}d$. per lb. on the spot. Prime hen albumen is 3s. spot and 2s. $10\frac{1}{2}d$. c.i.f. for September-November shipment

Honey has been in fair demand since the auction. Pale set Jamaica is quoted at 50s. down to 42s. 6d. per cwt. for ordinary. Cuban is 45s., Haytian 52s. 6d., and good San Domingo at 42s. 6d. Australian has been selling more freely, and included light yellow set at 30s. per cwt.

IPECACUANHA is unchanged, with good testing Matto Grosso offering at 6s. 9d. to 7s., Minas 7s. 3d., and East Indian at 6s. 6d. to 6s. 9d. per lb.

LIQUORICE JUICE.—Finest Italian block juice is offered

at 120s. per cwt. on the spot.

Lycopodium.—Fair-sized quantities have arrived. Holders ask 16s. per lb., but goods about landing can be had at 12s. to 13s.

MENTHOL.—Spot sellers of Kobayashi-Suzuki quote 23s. per lb., which price has been paid. To arrive, October-November shipment is offered at 19s. c.i.f.

MERCURY.—As we suggested in our previous issue, action was early this week taken by the leading importing firm in meeting outside competition, its price limit having been dropped from 10l. 10s. down to 9l. 10s. per bottle. Current quotations now range from about 9l. 10s. to 9l. 15s. At the moment there is no clear indication how far the demand may be galvanised into fresh activity. This, of course, in some degree depends on the state of export business, which so far has not wakened up to any material extent. The stocks available are believed to be very considerable despite the absence of imports last month. The position thus remains unsettled.

MYRRH is cheaper, with good pale Aden sorts offering at 11l. per cwt.

NUTMEG OIL is quoted at from 6s. to 6s. 3d. per lb. QUILLAIA.—Sales are reported in Liverpool of 15 tons at 29l. per ton.

SARSAPARILLA.—Supplies of both grey Jamaica and Lima-Jamaica have been getting into smaller compass, and prices are firm at from 1s. 10d. to 2s. per lb.

SENEGA.—With the United States still cabling higher prices (75c. this week = about 4s.), spot holders are firm at 4s. 3d. per lb.

Shellac.—The spot demand has been fairly active, and there is no pressure to sell, while good lines have been again coming out of stock this month. Usual standard TN Orange quality has been sold at from 330s. to 335s. per cwt.; fine lemon is 420s. to 425s.; fine second Orange, 390s. to 400s.; RL 1, 340s.; GAL, 265s.; and AC cakey, 285s. Futures show little change, the sales including October delivery at from 320s. to 327s. 6d. to 310s., and December at 322s. 6d. to 327s. 6d. to 320s.

STARCH PRODUCTS .- Farina continues quiet. The value of Japanese No. 1 is 28s, per cwt. c.i.f. for September-October shipment, and Dutch farina on the spot is still 27s. Maize starch powder is 16s. 3d. per cwt. on the spot, and pure Ricc starch crystals 40l. per ton.

TURPENTINE.—The market, after being firmer, ranging upward of 70s. according to delivery, has had adverse fluctuations in view of a quieter demand, and closes lower at

67s. 6d. per cwt.

Wax, Bees', remains firm, with good East African block offering at 4l. 15s., Mozambique at 4l. 15s., Mogador at 4l. 15s. to 5l. per cwt.; good Chilian 7l. 5s., Abyssinian at 92s. 6d. to 97s. 6d., and white Calcutta 7l. 10s.

Seeds and Spices

Anise is offered at 74s. per cwt., and Spanish at 75s. on the spot.

CANARY SEED is dull and easier. Larache is offered at 80s. to 95s. per quarter on the spot as to quality. Mazagan is 100s., Spanish 105s. to 140s., and La Plata 75s. to 85s. as to quality.

CAPSICUMS have been sold at an advance of from 5s. to

10s. per cwt. on previous values.

CARAWAY SEED is steady. Dutch is quoted at 32s. 6d., and Morocco at 22s. 6d. per cwt. on the spot.

CHILLIES.—Market remains very bare of all descriptions, but shipments of Zanzibar and Mombasa are expected shortly.

CINNAMON meets with little inquiry and prices are unaltered.

CLOVES have been firm, with Zanzibar on the spot offering at 1s. 32d. per lb. to 1s. 4d. October-December shipment has been sold at from 1s. 3d. to 1s. 3½d. per lb. c.i.f.

CORIANDER SEED .- Sound is offered at 30%., and wormy at from 16s. to 23s. per cwt. on the spot as to quality.

CUMIN SEED is unaltered, spot offering at 60s. per cwt., and to arrive at 47s. 6d. c.i.f.

DILL SEED is obtainable at 24s. per cwt. for cleaned on

FENNEL SEED is offering at 42s. 6d. per cwt. on the spot. FENUGREEK SEED is a trifle easier at 13s. 6d. per cwt. on the spot and at 12s. 6d. c.i.f.

GINGER is firmer, particularly sound Cochin and Calicut, which is worth 57s. 6d. per cwt. African is 36s., and Japanese 45s. Sound Jamaica is unobtainable, and for wormy in second hands extremely high prices are asked.

Hemp Seed is unchanged, offering at 23s. 6d. per cwt.

on the spot.

LINSEED.—Morocco is unobtainable on the spot.

Mace meets with little inquiry, but good Singapore, which was offering at below cost of production, is now held for higher rates. At auction 14 packages West Indian sold at firm prices, including fair to good 1s. 2d. to 1s. 3d., small 1s. 1d., ordinary 11d., and broken 9½d. per lb.

MUSTARD SEED .- Fair English yellow is lower at 30s.

NUTTHEGS.—At auction 167 packages West Indian offered, and practically all sold at higher rates, including slightly wormy 73's, 11d. to 1s.; 85's, 9½d. to 11d.; 124 to 103's, 6½d. to 8d.; wormy, 102 to 70, 7d. to 8½d.; broken and defective, 5d. to 5½d.

Pepper is steady, fair black Singapore selling at 4d. per lb. on the spot. October-December shipment has been sold at $3\frac{5}{8}d$., and November-January at $3\frac{11}{16}d$. c.i.f., being easier. Lampong is $4\frac{1}{2}d$., Tellicherry $4\frac{1}{2}d$. and Aleppy $4\frac{1}{4}d$. on the spot. At auction 21 bags Mangalore sold at 1s. for good and 10d. for grey. White pepper is easier, Muntok offering at $8\frac{5}{8}d$.; to arrive, October-December shipment has been sold at $8\frac{1}{8}d$. to $7\frac{2}{8}d$. to $7\frac{3}{8}d$. c.i.f. Singapore is $8\frac{1}{2}d$ on the spot. and for October-December shipment has been sold at $8\frac{1}{8}d$. to $7\frac{2}{8}d$. to $7\frac{3}{8}d$. c.i.f. Singapore is 81/2d. on the spot, and for October-December shipment 7\frac{3}{4}. c.i.f. has been paid.

PISTACHIO NUTS.—It is confirmed that this year's crop

is a failure, and high prices are asked for old crop.

Essential Oils

A FAIR demand seems to have been general during the week. Spot stocks of Japanese camphor oil are almost cleared, and quotations are firm. Dutch caraway has been sold in considerable quantity, and clove oil for export has been in request. Sassafras is steady and may show an advance. Wormseed is again dearer, and several belated inquiries appear to be going around. Sicilian oils have moved in buyers' favour owing chiefly to depreciation in Italian exchange. Japanese mint and star anise oil are cheaper on the spot. A good demand for patchouli has been experienced, but the spot position is easier. Lime oil (distilled) is a shade easier. Spanish oils have been in good demand. Aromatic and synthetic chemicals are firm to dearer.

Anise (Star).—"Red Ship" on the spot is quiet and easier, with sellers at 2s. 2d. per lb. To come forward quotations are without interest, up to 2s. 4d. c.i.f. being

BAY.—West Indian on the spot is about steady at from 14s. to 15s. per lb. according to percentage.

BERGAMOT is cheaper to come forward for 37 to 39 l.a. at from 24s. to 26s. per lb. c.i.f. On the spot there appears to be little on offer at about 27s. to 28s. per lb. Parcels affoat have been quoted at 25s.

Самрнов.—Japanese essential, white, is firmer at 126s. to 127s. 6d. per cwt. in large drums. Demand has

been good recently, and spot stocks are scarce.

CARAWAY.—It is reported that the drought has had serious effects on the caraway yield, and prices are tending firmer. Large business has been done previous to the rise. From 6s. 6d. to 7s. per lb. for rectified and 6d. per lb. less for crude are now about the current quotations for Dutch.

Cassia.—On the spot 4s. 9d. per lb. has been paid for 80 to 85 c.a., which is still the nominal figure. To come forward 4s. 4d. c.i.f. is quoted, but resellers can shade this. Business is reported done at 4s. 6d. landed.

CINNAMON.—Ceylon leaf is quiet and unchanged at from $4\frac{3}{4}d$. to 5d. per oz. spot. Forward quotations are steady at 4½d. c.i.f.

CITRONELLA is dull. Ceylon on the spot is unchanged at 1s. 6d. per lb., and to come forward 1s. $5\frac{1}{2}d$. c.i.f., and Java at 2s. 9d.

CLOVE.—Fair business is reported done at 8s. 9d. per lb., but there are no more large sellers at this figure, and from 9s. to 9s. 3d. is about the spot quotation, being firmer.

EUCALYPTUS has been in better demand of late, and prices are steady at from 1s. 9d. to 2s. per lb. for B.P. qualities. Citriodora is 10s. to 12s., and Amygdalina is unaltered at 1s. 6d.; there is likely to be no change in the latter for a considerable period.

Geranium.—Demand appears slow. The higher quotations for Bourbon seem to have held up buyers. Spot lots are obtainable at 15s. to 15s. 9d. per lb., although in some directions 17s. 6d. is still about the figure. Algerian is quiet at 20s. per lb.

JUNIPER is steady at from 7s. to 7s. 3d. per lb. for B.P. LAVENDER.—As very little genuine Mitcham has been distilled this year, holders have been able to obtain 240s. per lb. for new crop.

LEMON is cheaper. Good-quality oil is obtainable at from 3s. 7d. to 4s. per lb. spot and upwards, as to holder. To come forward, 3s. 8d. to 3s. 9d. c.i.f. is quoted.

LEMONGRASS.—Cochin is steadier at 3½d. per oz., with

buyers at 3d. spot. To come forward is dearer at $3\frac{3}{4}d$.

Lime.—Distilled on the spot is offered at from 2s. $7\frac{1}{2}d$.

Mandarin is offered at 30s. per lb. c.i.f. in some directions; prices continue to show considerable variation.

Mint.—Japanese dementholised Kobayashi-Suzuki on

the spot is a shade cheaper at 4s. 8d. per lb. spot. For a line 4s. $7\frac{1}{2}d$. would probably be accepted. To come forward the price quoted is unchanged at about 4s. 6d. c.i.f.

Orange.—Sicilian sweet is cheaper, with quotations to come forward at 15s. 6d. c.i.f. Spot is not too

plentiful, but 16s. 6d. to 17s. 6d. is about the value. West Indian sweet is fairly steady at 14s. for spot.

Отто оf Rose.—The recent Bulgarian crop amounted to almost 1,500 kilos. of otto, which is about one-fourth the normal, but, in view of the smaller extent of the acreage under rose cultivation, this yield is considered quite a good one. For "own distillation" (guaranteed to pass Parry one. For "own distillation" (guaranteed to pass Parry and Umney's tests) from 40s. to 50s. per English oz. is the spot quotation.

Palmarosa.—Spot quotations are unchanged at 14s. 6d. per lb. in large pots.

PATCHOULI is cheaper on the spot at from 37s. 6d. to 40s. per 1b., according to quantity. There appears to have been a fair inquiry for good-quality oil.

Peppermint.—American tin oil continues in fair demand at from 11s. 6d. to 12s. per lb. spot. Parcels expected during the week are quoted at 11s. 9d. landed. To come forward from 11s. to 11s. 3d. c.i.f. is mentioned. Redistilled is steady ,with sellers on the spot at 13s. 3d. Franco-Mitcham of fine quality is quoted at 35s. per lb. spot.

Rosemary.—Spanish has been in better demand, and importers are quoting from 1s. 6d. to 1s. 8d. per lb. for finest quality.

SASSAFRAS.—Genuine on the spot finds buyers at 8s. per lb., at which figure stocks are held in some directions. Spearmint continues easy at about 24s, per lb. for small spot lots.

Spike.—Spanish has been in good demand on the spot, and in some directions large importers are without stocks. Further arrivals are expected within the next ten days, and the present quotation is unchanged at 3s. 6d. c.i.f. Prices appear to have reached bottom, and latest prices from the source are from 3d. to 4d. per lb. dearer.

Tansy.—American is offered to come forward at 42s.

per lb. c.i.f. in one direction.

WORMSEED .- Higher figures are coming forward, and up to 21s. c.i.f. is now quoted for forward shipment. There is not much being offered on spot, but it should still be possible to shade this figure. Inquirics appear to be numerous.

Aromatic and Synthetic Chemicals

AUBEPINE is quoted at from 12s. to 15s. per lb. AMYL SALICYLATE varies from 4s. to 5s. per lb., according to holder and quantity. Benzyl acetate is offered about 3s. 6d. per lb., and Benzyl benzoate at from 3s. 6d. to 4s. Benzaldehyde has a range of from 3s. 3d. to 4s. per lb., according to quality. Coumarin is obtainable at from 11s. 6d. to 12s. per lb., which appears to be the general range. Eugenol is offered at 14s. per lb. secondhands, but 18s. is quoted as actual value. For Helio-TROPINE from 10s. to 11s. per lb. is about the average idea of value. Musks.—Ambrette is obtainable at from 85s. to 100s. per lb.; ketone about 60s., which may still be shaded in some directions; and xylol at 15s. Methyl salicylate is dearer at from 2s. 4d. to 2s. 6d. Phenyl ETHYL ALCOHOL of good quality is still offered at 24s. per lb. in some directions. SAFROL is dearer at 3s. per lb. in large drums. Packed in 28-lb. containers 3s. 3d. is quoted as a general figure. Terpinol has a range of from 2s. to 2s. 4d. per lb. Vanillin.—In some directions 37s. 6d. per lb. was quoted early in the week, but as we close 38s. to 38s. 6d. are the general figures. All the above prices are spot.

Fixed Oils, etc.

VERY few changes are recorded in this market. Business generally has been rather quieter, but prices are being fairly well maintained. Cottonseed oil and rape oil close firm at slightly higher figures. Acto oils on the spot—coconut, 48s. 6d.; palm kernel, 48s. 6d.; ground nut, 43s.; the market has been rather quieter. BONE GREASE on the spot—pale water is still unoffered. Brown and benzine remain rather quiet at about 41s. and 40s. respectively. Castor oil on the spot remains steadily quoted at last week's figures, with the market dull: Pharmaceutical, 60s.; first pressings, 55s.; second pressings, 50s. Cocomparison of the second dull of the second dull. NUT off. on the spot—deodorised is at about 66s. and dull; Ceylon, 55s. 6d.; and Cochin, 60s. c.i.f. for shipment.

COTTON-SEED OIL on the spot closes firm at the following figures: Deodorised, 62s.; common edible, 57s.; soapmaking 48s. 6d.; crude, 46s. Fish oils c.i.f. for shipment. Japanese in cases, 24s.; coast cod, 32s. 6d.; the market remains firm. Ground-Nut oil—deodorised on the spot is steady at about 68s., and crude Oriental c.i.f. for shipment unchanged at about 55s. 6d. Palm-kernel oil—deodorised on the spot is quoted at 62s. and crude at 52s.; values are unchanged. Palm oil—Lagos on the spot is quoted at 42l. 15s.; softs, 40l. 15s.; hards, 36l. 15s. per ten, the true latter Sentember on October arrival, market metals. ton, the two latter September or October arrival; market is fairly steady. RAPE OIL has firmed up, and on the spot refined is now 61s. 6d. to 62s. per barrel and crude 54s. SOAP STOCK remains nominal, none offering. SOYA-BEAN OIL—deodorised on the spot is firm at 65s., and crude Oriental for shipment is about 48s. 6d. c.i.f. LINSEED OIL -there has been a lull in the export demand, due to the unsettlement incidental to last week's storp collaps, while the flatness of seed values was also pronounced. The reaction after a long period of generally rising markets had been overdue, but it is quite possible that the commanding attitude of Argentine shippers will reassert itself sooner or later, although the balance of the crop to be shipped should be ample enough to meet all crushers' needs. Naked on the spot ex mill closes at 32s. 6d.; October-December, 31s. 9d.; January-April, 32s. 9d.; Hull closes at 32s. spot. Tallow—the market for Australian has been much quieter again this week; parcels on the spot are quoted at about: Fine beef, 60s.; good mixed, 57s.; and inferior, 44s.

Pharmaceutical Chemicals

This section is thoroughly disorganised as the result of the forthcoming import duty of $33\frac{1}{3}$ per cent., and, although holders have made all-round advances in prices, buyers are reluctant to accept them, and business is almost at a standstill at the moment, except in a few important products, like the salicylates, aspirin, cocaine, hexamine, phenacetin, tartaric acid, and vanillin. The fact that a further sensational fall in the German mark has taken place, selling at around 500 to the £ sterling, adds to the difficulties of dealers. As the decline in the mark this week more than wipes out the 33 per cent. duty, many prices of German chemicals should be lower and not higher. But the new duty is the greater factor, and, where possible, advantage will be taken of it on stocks which were imported before October 1. Business is, therefore, likely to be tortuous and prices will tend to grow irregular, much depending on whether the seller has paid duty or not. The following are among the products which are more or less held for higher prices: Acetanilide, amidopyrin, aspirin, benzoic acid, bromides, calcium lactate, lithium carbonate, methylene blue, methyl salicylate, methyl sulphonal, milk-sugar, phenazone, tartaric acid, and vanillin. Guaiacol carbonate and barbitone are easier.

ACETANILIDE.—Crystals and powder have again advanced, and very little is offering on a firm market below 1s. 5d. to 1s. 6d. per lb.

AMIDOPYRIN is now quoted at about 21s. to 21s. 6d. per lb., but sales are few.

Asririn has advanced considerably, and good qualities are now only obtainable at about 3s. 2d. to 3s. 4d. per lb., with 3s. 6d. quoted for small lots.

BARBITONE is still almost neglected, with holders offering at 12s. to 12s. 6d. per lb.

Benzoic Acid is a shade firmer at about 2s. 4d. to 2s. 5d. per lb.

BENZONAPHTHOL is lower, with importers offering from 5s. 9d. to 6s. 6d. per lb.

Betanaphthol.—Although large stocks of resublimed are said to be on the spot and there is only a very limited . demand; most quotations are at about 3s. 6d. per lb.

BROMIDES.—Ammonium is now quoted in some hands at 1s. (paid); the market is undoubtedly firmer. Potassium has also advanced from holders to about 9d. to $9\frac{1}{2}d$. per lb. as to quantity. Sodium has also been put up to as high as $10\frac{1}{2}d$. to 11d. per lb. CALCIUM LACTATE, although not in brisk demand, has advanced to about 2s. 6d. to 2s. 9d. per lb.

CHLORAL HYDRATE is well maintained at the recent

higher values, and quotations now average about 5s. 6d. per lb. for duty-paid crystals.

CITRIC ACID, B.P., as expected, is showing up firm,

with little on the market below 2s. 5d. per lb., less 21

per cent.; demand is quiet.

COCAINE.-In view of the duty, the usual channels of distribution are acquiring stocks sufficient to last a month or so, and prices are a matter of negotiation: Agents for the makers quote 10s. 6d. to 11s. for hydrochloride, and 13s. to 14s. per oz. for the pure alkaloid.

CODEINE is easier than when last quoted, makers offering the pure crystals at from 13s. to 13s. 6d. per oz. as to

quantity.

CREAM OF TARTAR.—In view of the duty, endeavours are being made to stiffen prices, and 127s. 6d. per cwt. is regarded as the lowest for B.P. quality.

CREOSOTE.—B.P. is steady and quiet at about 4s. 9d.

to 5s. per lb.

CREOSOTE CARBONATE remains unchanged at 14s. per lb.,

with the market still quiet.

EUCALYPTOL.—This product is scheduled from 331 per cent. duty, but fair stocks exist on spot, and until these are exhausted the price is likely to remain at the comparatively cheap rate of 4s. per lb.

GUAIACOL CARBONATE has eased off further, and is now offered with but small demand at about 12s. 6d. to 12s. 9d.

per 1b.

HEXAMINE is well maintained at last week's figures of 4s. 3d. to 4s. 6d. per lb., and a fair business is passing. HYDROQUINONE has slackened off in demand altogether, with values fairly well maintained at 4s. 3d. to 4s. 6d.

per lb. LITHIUM CARBONATE.—With continued scarcity the spot

price is now 12s. per lb. for imported.

METHYLENE BLUE.—Makers have advanced their prices to 26s, to 27s, per lb. for medicinal quality.

METHYL SALICYLATE has firmed up considerably during the week, and quotations average about 2s. 9d. per lb.

METHYL SULPHONAL has further advanced, and about

21s. is now being asked for B.P. material.

MILK-SUGAR.—As consumers entirely depend on imported material there is a disposition to ask advanced prices, and 150s. is quoted this week for B.P. powder, but it would still be possible to buy at 140s.

PARAFORMALDEHYDE has firmed up, and now quoted at about 3s. 6d. to 3s. 9d. per lb., but buyers seem to be

holding off.

PARALDEHYDE remains unchanged and steady at about 2s. per lb. on spot and 1s. 10d. c.i.f., with fair sales at the price.

PHENACETIN is now quoted fairly steadily at about 6s. 6d. to 7s. per lb., and the market is firmer.

PHENAZONE has further advanced, and is now offered at about 8s. to 8s. 3d. per lb., with the market dull.

PHENOLPHTHALEIN is still varying, with an average of

about 4s. 6d. per lb.

POTASSIUM PERMANGANATE continues to be called for in limited lots, with quotations well maintained at 1s. to 1s. 2d. per lb. for imported material.

POTASSIUM SULPHOGUAIACOLATE remains nominal at

7s. 6d. to 8s. per lb.; market is neglected.

QUININE.—Sulphate is quoted from dealers' hands at from 3s. 11d. to 3s. $11\frac{1}{2}d$. per oz., and is firm at these

RESORGIN remains firm, with values at about 8s. 3d.

to 8s. 6d. per lb.

SALICYLATES.—Sodium is in good supply, with a fair demand, and prices close at about 2s. 7d. to 2s. 9d. per lb. for crystals and 2s. 5d. for powder. Salicylic acid remains firm at 1s. 6d. to 1s. 8d. per lb. on a fairly active

SALOL remains unchanged at 2s. 8d. to 3s. per lb.;

market dull.

SILVER NITRATE.—The price quoted for crystals on September 28 was based on a metal price of $43\frac{1}{6}d$. per oz. as follows: In quantities of 25 oz., 2s. $8\frac{1}{4}d$.; 50 oz., 2s. $7\frac{3}{4}d$.; 100 oz., 2s. $7\frac{1}{4}d$.; 250 oz., 2s. $6\frac{3}{4}d$.; 500 oz., 2s. $6\frac{1}{4}d$. per oz.

SODIUM DIETHYLBARBITURATE remains inactive, with values about the same at 22s. per lb.

SULPHONAL is snowing up a little firmer at about

20s. 6d. to 21s. per lb.

TARTARIC ACID has been in good demand. Holders of stocks are unwilling to sell at previous low values, and up to 1s. $5\frac{1}{2}d$. per 1b. is asked. The $33\frac{1}{3}$ per cent. duty will help holders to retrieve their losses on this article.

TERPIN HYDRATE is quoted at from 2s. 7d. to 3s. per

lb., and is very irregular.

Heavy Chemicals

London, September 28.

CONTINUING in a very sluggish manner, the industrial chemical market shows little signs of reviving. Fair stocks are offering on the spot, and ample supplies are quoted at "cut" figures from the Continent. The few alterations recorded relate to products that are affected by the Safeguarding of Industries Act, such as acetic acid, which is now quoted at much higher figures.

ACETIC ACID has firmed up in all grades from 80 per cent. upwards, and the limited stocks now offering are firm at about 42l. 10s. for 80 per cent. technical, 45l. for 80 per cent. pure, and 52l. to 53l. for 98 per cent. glacial. Imports from the Continent continue large.

ACETONE.—British Government specification remains neglected and nominal at about \$51. per ton.

Ammonia Sulphate.—No change to record from last week's prices.

Arsenic.—Strong evidence of a shortage having been revealed at the opening of this week, holders who were rather suddenly besieged with numerous inquiries experienced no difficulty in finding buyers at rapidly advancing prices, and the rise, as compared with the terms which were quoted a week or so ago, shows an appreciation for white Cornish of well over 10l. a ton. A jump of this kind has created some little excitement in so short space of time. A heavy demand is reported by Cornish agents, who are practically sold out, and were asking on Tuesday 43l. delivered London for lots of 4 tons. It remains to be seen whether this extraordinary development will attract supplies sufficiently to check a further rise or to arrest the demand eventually.

BARIUM CHLORIDE (98 to 100 per cent.) is still uncalled for and values are nominal. Continental material is offering, but not being taken up, at about 12l. 10st per ton. British makers' prices are higher.

BLANC FIXE is quoted unchanged at about 221. 10s. per ton, with limited business being done.

Borax from makers and spot holders remains unchanged on a quiet market at: Commercial crystals, 31l.; powder, 32l.; B.P. crystals, 35l.; powder, 36l.; extra fine, 37l. per ton; makers are now quoting for all destinations.

COPPER SULPHATE. - With the export demand making fair progress, the tone is very steady, but makers' quotations have remained wide under keen competition at around 311. for casks f.o.b. Liverpool, less 5 per cent. Up to 32l. is being asked for export, but there are a few cheap sellers at about 30l. to 30l. 10s.

FORMALDEHYDE has firmed up a little more this week, and the few small spot lots are now quoted at about 951. to 971. per ton, but buyers are not paying that.

FORMIC ACID.—In view of the duty, large imports have taken place of late, and the value of 85 per cent. is about 65l. per ton.

GLAUBER'S SALT finds no buyers at the nominal figure of 5s. per ton; market is lifeless.

LEAD ACETATE is offered much cheaper this week. Con. tinental brown broken is about 421. per ton and white crystals about 47l.; the demand is still small.

LEAD PRODUCTS.—Imported red lead is still offered on the spot at 33l. 10s. per ton, which is lower than British quotations.

LITHARGE from the Continent is maintained steadily at 331. 10s. per ton, but there is not much call.

LITHOPONE has been quieter, and prices are not so firm; 30 per cent. red seal Continental is now at about 251. 10s. per ton. Light resisting is steady at 28l, and green seal at 321.

OXALIC ACID continues quite firm in spot holders' hands at 9d. per lb. upwards: the demand is, however, quite small at that figure.

POTASH CAUSTIC is still very dull, with spot lots offered at 301. per ton: forward from Continent is quoted at lower figures.

POTASSIUM BICHROMATE has not improved in demand; quotations are so far maintained at $8\frac{1}{2}d$. per lb., but are not steady.

POTASSIUM CARBONATE is unchanged at about 261. to 271. per ton with very little business.

POTASSIUM PERMANGANATE remains very firm, with commercial quality steady at 11d. upwards per lb.; limited business is being done.

Potassium Prussiate remains steady, but still in small demand. Red is steady at 2s. to 2s. 3d.; yellow remains unchanged at 1s. 2d. per lb.

SALTCAKE is a dead letter; there is no demand what-ever; nominal value is 6l. per ton f.o.b.: cheaper offers from the Continent are neglected.

Soda Ash (58 per cent. light alkali) on the spot is still at about 8'. 10s. per ton, but few inquiries are coming through; makers quote at about 8'. 10s. per ton for home trade and about 10'. 5s. for export.

Soda Crystals remain unchanged at the old figure of 71. per ton ex works or station from makers.

SODIUM BICARBONATE.—Refined parcels on the spot are offering at about 12l. to 12l. 10s. per ton, but there is no great demand.

SODIUM BICHROMATE has been inquired for a little, with quotations at about 6d. per lb., but actual business is poor.

Sodium Caustic, ex makers' works for home trade only, is unchanged at 26l. 15s. for 76 to 77 per cent. and 24l. 10s. for 70 to 72 per cent. Spot parcels are rather short, and prices are firm at about 23l. for 70 to 72 per cent. and 25l. for 76 to 77 per cent. American makers are quoting competitive figures c.i.f. United Kingdom and chief Continental ports.

SODIUM CHLORATE is steady at about 33d. to 4d. per crystals and powder from makers and spot holders; the demand is poor.

SODIUM CYANIDE continues to be quoted at about 11d. to $11\frac{1}{2}d$. per lb., with the demand still poor.

Sodium Hyposulphite pea crystals is being held by holders, but buyers are not on the market: nominal value is about 25l. per ton; commercial quality is unchanged at 14l. per ton for imported material. Makers continue to quote at 181. 10s. for photographic and 151. for com-

Sodium Nitrate (96 per cent.) is quoted at the lower figure of 171. 10s. per ton, but there is very little movement on the market.

Sodium Nitrite (100 per cent.) is fairly steady at about 401. per ton, but is not being asked for.

Sodium Prussiate has advanced slightly and is now fairly firm at about 8d. per lb.; inquiry has been received.

SODIUM SULPHITE remains inert, spot lots now down to 231. per ton, but there appear to be no buyers. Makers centinue to offer 60-65 per cent. concentrated in casks at 221. per ton.

COAL TAR PRODUCTS, ETC.—No change of any importance has taken place in this market during the past week. Business continues on strictly limited lines, with values appearing quite firm: Aniline oil and salt remain unchanged, but rather quiet at 1s. $2\frac{1}{2}d$. and 1s. 4d. per lb. respectively. Betanaphthol is still quoted at the old respectively. Betanaphthol is still quoted at the old figure of 1s. 9d. per lb., but the demand is very slight. Benzol is well maintained, in spite of only a small demand at 3s. for pure and 2s. 7d. for 90. Xylol and toluol are unchanged, with the markets neglected. Solvent naphthas are showing a little activity, with values steady at 2s. 9d. for 90/160 and 2s. 7d. for 90/190 per gallon. Creosote oil remains dull, with values unsteady at 9d. per gallon. Carbolic-acid crystals are still freely offered, but there is very little demand; values are weak at 7d. per lb.

Cresylic acid is unchanged and still quiet. 1s 10d. Pale straw 2s. 6d. per gallon. Na 18 10a. Fair straw 28. 0a. per gailon. Naphthalme remains fairly steady, and there has been a slight improvement in inquiry: Crude, 5l. to 9l.; powder, 19l.; crystals, 22l.; tlakes, 23l.; balls, 28l. per ton, packages free. Pitch seems a shade weaker, and is now down to about 3l. 10s. per ton.

Java Cinchona Contract

In view of the fact that several cinchona planters are apparently dissatisfied with the terms of the cinchona contract, in so far as these affect them, and have recently been voicing their grievances against the quinine manufacturers, the secretary of the Association for the Protection of the Interests of the Cinchona Planters in the Dutch East Indies has seen fit to issue a word of warning to the malcontents, which is published in the "Algemeen Landbouwweekblad voor Nederl. Indie," for August 19, 1921. The cenditions which led to the conclusion of the cinchona contract are first of all briefly set forth, whereby the planters are reminded of the benefits extended to them in the shape of an assured market and a fixed price for their bark, shape of an assured market and a fixed price for their bark, and while the contract is advantageous to both parties, the planters are reminded of the risks which the manufacturers have to face. The fact is pointed out that circumstances may compel the manufacturers of quinine to avail themselves of the proviso contained in Article 200 of the contract, which empowers them to terminate the contract after giving notice of this intention twelve months in advance, should the sale of quinine in whatever form during six consecutive the sale of quinine in whatever form during six consecutive months not amount to at least 80 per cent, of the total amount they are obliged to take over from the planters, in accordance with the terms of the contract. The demand for quinine is subject to fluctuations, and it is difficult to forecast the position of the market when the present contract expires. Further, attention is drawn to the fact that a large portion of Europe is financially unable to purchase quinine; thus Russia and the Balkan States, which prior to the war consumed at least 80,000 kilos, of quinine sulphate, no longer figure as purchasers of quinine. Not only in Europe but also in other countries the economic conditions have resulted in reducing the consumption of quinine to a very appreciable extent, and this decrease in the possibilities of selling quinine, the world's consumption of which prior to the war amounted to about 500,000 kilos. the possibilities of selling quinne, the world's consumption of which prior to the war amounted to about 500,000 kilos. annually, is making itself acutely felt. Another point not to be overlooked, and which is also responsible for the decline in the sale of quinine, is the improved conditions of health which have been attained in the financially powerful countries. Even should the planters carry out their often expressed intention of breaking away from all arrangements with the manufacturers, in order to produce quinine themselves, they will not improve their position arrangements with the manufacturers, in order to produce quinine themselves, they will not improve their position, and will certainly not succeed in obtaining a better price for their product. In addition, they would have to face the competition of the manufacturers, who represent a powerful and experienced combination. The idea that the manufacturers would be unable to obtain the requisite supplies of cinchona is ridiculed, since it is scarcely likely that all the planters of Java would act collectively, and they are also reminded that it is quite possible to cultivate cinchona outside Java, although with less success than in that island. Consequently there is no advantage in minimising the benefits accruing from the quinine contract and mising the benefits accruing from the quinine contract, and the planters are exhorted to collaborate with the manufac-turers as in the past, with the assurance that those en-trusted with the safeguarding of their interests will not fail to procure for the producers the most advantageous terms in the future negotiations between both parties.

Prohibition in Norway.—Despite the existence of prohibition in Norway, it is stated that last year 750,000 litres of brandy were sold by pharmacists.

MERCK'S FILMED.—'The Berlin The Zeitung '' (No. 71, 1921) reports that in order to make Zeitung '' (No. 71, 1921) reports for the German chemical FILMED.—The Berlin "Pharmazeutische propaganda in foreign countries for the German chemical industry, the firm of E. Merck, of Darmstadt, has undertaken the production of a unique film, giving an insight into all the activities of their works. This film not only shows the various parts of the works, but depicts all the activities against a the works, but depicts all the productions against a the propulations of the more operations carried out in the manufacture of the more important drugs, from the raw material to the finished product, including the preparation of sera, and different phases of office work. Prior to being sent out on its tour throughout the world, the film was shown at a private exhibition, which occupied an hour and a-half.



Letters for this section should be written on one side of the paper only.

The writer may adopt an assumed name for purposes of publication, but he must in all cases furnish his real name and address to the Editor.

Synthetic Perfumes

SIR,—I do not think there is one word in my letter (C. & D., August 13, p. 69) which any person who read with very close attention the remarks of Messrs. Ungerer & Co. on the matter in question (unless they have been considerably distorted in reproduction) could say was unjustified. The paragraph in italics in Messrs. Ungerer & Co.'s letter to you (C. & D., September 17, p. 59) would suggest that the list which follows it is intended to draw attention to "natural isolation products which, through a misunderstanding, have in many technical quarters been erroneously classified as synthetic aromatic chemicals." For example, I find in that list the following examples:

Product Chief Source
Phenylethyl alcohol. Otto of rose oil.
Safrol. Camphor and sassafras oils.

No distinction whatever is made between the relationships in these two cases. But phenylethyl alcohol is never isolated from otto of rose, but is prepared synthetically and is a "synthetic aromatic chemical." Safrol, on the other hand, is, commercially, always isolated from camphor oil and not manufactured synthetically, and is not a "synthetic aromatic chemical." How, then, does this list help the ignorant to discriminate? I quite accept the meaning in Messrs. Ungerer's mind, but I think my letter of August 13 is quite justified as indicating the impression produced on the minds of readers of the article in question. I shall always enjoy reading Messrs. Ungerer's "Bulletin," which is invariably interesting.

Yours truly,
56A Great Dover Street,
London, S.E.

Yours truly,
ERNEST J. PARRY.

An Old Controversy

SIR,—Referring to your retrospect of the C. & D., September 15, 1871, in which is given the incident of the rejection of the two homeopathic chemists from membership by the Pharmaceutical Council, on the ground that their inclusion might introduce an element of discord, it is interesting to note that this action was not held to be either prudent or justified. Much less would it be so in these more enlightened days, when the truth of homoeopathy has so signally prevailed the world over. Magna est veritas et prevalebit is an axiomatic truth to which homeopathy has certainly added its quota of convincing testimony. Hahnemann never wished that a Mordecai or anyone else should bow down to him, but that the truth of the system should be acknowledged. Long years of intimate contact with homeopathic pharmacy consequently, with the results of homeopathic medical practice) have convinced us that the ludicrous derision of the system by the orthodox medical and pharmaceutical bodies has given place to a proper conception of its true nature. It is therefore quite unnecessary for either orthodoxy to bow down to homeopathy, or homeopathy to bow down to orthodoxy, but as honourable members of a liberal-minded profession, such as the medical, it is surely incumbent upon every one of them to accept any means which seem best suited to relieve the pain and suffering of their patients. Fiat justitia ruat cælum should rule in all such cases.

Yours faithfully, LEATH & Ross.

Brondesbury, London, N.W. 6.

Poor-law Dispensers' Tenure of Office

SIR,—While agreeing with the greater portion of the able letter of "D. D. A." (C. & D., September 24, p. 75), it does not disturb the very timely note (C. & D., September 3, p. 41) on dispensers' tenure. I feel sure that

"D. D. A." will agree with the Editor's remarks after reading the following, which is a copy of the article which is being included in the orders issued for the separation of Poor-law hospitals from the workhouse management:

Every dispenser and nurse, and also every assistant officer, may be dismissed by the Guardians without our consent, but every such dismissal and every dismissal from the office of porter and the grounds thereof shall be reported to us by the clerk to the Guardians.

The fact of the addition of this article in the special orders confirms the dispenser's security of tenure for those who are appointed under the general orders, but strong efforts should be made to retain that security held for so many years.

Yours sincerely,

M. P. S. (26/9).

Safeguarding of Industries Act SIR,—From a careful perusal of Hansard's full reports of the various phases of the passage of this legislation through Parliament, one cannot help noticing the emphasis, repeated time and again, which the Government, when referring to Part I., laid on the point that it was purely a "national safety" measure, and that only essential or "key" industries would be protected. It was on these grounds that the Bill was finally passed. The issue of the "key" list, however, reveals the Act as a tariff measure. The list comprises something like 6,000 chemical and other products, and included in it are, I submit, approximately 2,000 products that are not made in this country for the simple reason that the demand for them is so small as not to justify the erection of expensive plant for their production here. Importation will have to continue, and, consequently, the consumer—often the manufacturer of finished goods for export—will have to pay the higher price which the duty will entail. It is obvious that the spirit of the Safeguarding of Industries Act (Part I.) has been entirely lost sight of, with the result that the list, an excellent proof of the technical abilities of the officials concerned, contains hundreds of products that cannot be termed "key" products under the most elastic interpretation. Without dis-"key industries," or the desirability or otherwise of a general import tariff system, I suggest it would have been much more satisfactory if the Government had frankly intimated their intentions by submitting the Bill in its true light as a tariff measure to levy duty on imports of themicals and not as they did on various escalars, bor chemicals, and not, as they did on various occasions, beg for its life on the plea that it would only refer to, and be strictly limited to, "key industries." Since the Armistice the chemical and allied trades have been continually harassed and impeded from settling down. First we had the illegal import restrictions-quashed by the Sankey judgment. After that came the prohibition on the importation of dyestuffs, although the Government were at the time big importers of German dyes. Now we have the present legislation putting up the cost of raw materials to consumers, which they cannot obtain

except by importation.

Yours faithfully,

O. J. C. Bromfield,

Secretary, the British Chemical Trade Association.

80 Fenchurch Street, London, E.C. 3.

"Through German Spectacles"

SIR,—Referring to the extract from the "Pharmazeutische Zeitung," Berlin, in your issue of August 6, the writer cannot allow the remark that you have placed in italics (i.e. "on account of Indian sympathies for Germany") to pass unchallenged. The only reason why German bills on Indian dealers are not so liable to be dishonoured is that prices of German goods are much less than those of similar goods from America or England. The bulk of the Indian trade is now going to Germany simply because Germany is the cheapest market. There is no question of sympathy with Germany, although Indians as a rule have not the same feeling about Germany as a Britisher has. German firms may have bills dishonoured, but as trade becomes better there is less likelihood of this, especially if German firms deal with reputable firms and not with the host of "men of straw" in the

drug-trade. It cannot be denied that some dealers rather than take up drafts from Euglish and American firms have re-ordered goods from Germany. The banks and warehouses are still filled up with British and American goods, while the new German stocks pour into the country. Admittedly, this shows an entire absence of ordinary commercial morality, but it cannot be construed into sympathy for Germany. Examples of the difference in prices might be multiplied without number, but one case which came to the writer's notice lately is sufficient to explain the reason for purchases from Germany. Glass inland revenue pattern condensers cost 31s. 6d. each in London and are landed in India at Rs. 25; the same article purchased in Germany is invoiced at 60m. and landed at Rs. 4-12. The German article is just as good as the English, and the disparity in price leaves Indian dealers no alternative but to go to Germany for supplies. The Indian dealer has a sufficiently bad name at present without accusing him of anti-British and pro-German sympathies, as is done by the Calcutta correspondent of the "Pharmazeutische Zeitung," and the writer trusts that the position has been made clear to your readers, and that it is not pro-German sympathies but low German prices that are attracting Indian orders at present.

Yours faithfully, ANGLO-INDIAN (23/9).

Examinations and Efficiency

SIR,—I do not know the extent of "An Examination Veteran's" experience of the retail drug-trade, but I am sure that he will on consideration modify his statement that a man who cannot pass the test of examination cannot pass the test of practice. During a lengthy period spent as an assistant, in which time I was employed in an assortment of pharmacies ranging from high-class dispensing down to quick cash retail businesses, I was often struck by the number of men who were all that could be desired behind the counter, and yet had for some incomprehensible reason been unable to tackle successfully the Qualifying examination. To this day there must be many such men in the trade, as witness the advertisements in the Coloured Supplement, and the unqualified men one knows tho are engaged in pharmacies and are giving satisfaction to their employers. How are we to account also for the fact that some men who gain medals and certificates at the pharmacy schools are ploughed at Galen Place; and in the days of the old Minor examination the numerous instances of men who passed in some subjects, failed in others, and on re-examination were sent down in the very subjects they had originally succeeded in? As to the viva-voce part of the examination being a question of wits, I well remember that in my first attempt at the Minor (my second attempt was successful, so that I am not tarred with the disgruntled candidate's brush) I was so harried—I had almost written browbeaten—at the first table that if I had been constructed of wits in toto they would not have recovered in time for the remaining subjects. I have always put down my failure on the aggregate to that ten minutes' ordeal, although I am not a nervous subject on such occasions. With regard to the examiners being specialists in their particular subjects, this is perhaps as it should be; but it must always be remembered that, in those days, at any rate, when all the subjects had to be passed at one sitting, the candidate was expected to show proficiency in all of them on the same day, whereas each examiner, while knowing his own work from A to Z, probably would have cut a poor figure at some of the rest, and so could hardly be expected to view his tests in the same manner as his examinee. I have had no experience of medical examinations except from the history of friends, but I cannot help pointing out that the number of subjects and divisions of those subjects which a medical student has to take up during his five years' course is so large and varied that he cannot possibly acquire an expert knowledge of each of them. This probably accounts for the mediocrity of the average "G.P." nowadays. To take the study which is our own, pharmacy, I have been told that the course consists of about twelve lectures; and if this is so, what knowledge can a man have of this work when he has passed that part of his course when we compare it with the training required

to qualify as a pharmacist, who is afterwards looked down on by the dispensing doctor as very poor game indeed?

Yours faithfully,

AGGREGATED (10/9).

Sir,—"Examination Veteran's" second letter (C. & D., September 10, p. 56) is another list of errors from end

1. He says men who cannot pass tests cannot pass in practice. But they are doing it, and as assistants they are more highly valued still, and as dental practitioners they are notoriously successful (their ranks including

many qualified chemists).

2. He denies that social position seems to be the only aim of a large section of medical students. "Xrayser II." has said so many times, and one of G. B. Shaw's best-reasoned articles was very clear on it; also, like barristers, a big number never practise at all; further, those who do practise crowd into swell towns, while populous dirty quarters are notoriously short of medicos.

3. He says *viva voce* shows up quick wits. We do not want orators, we want efficient men and don't get them. But, even so, if the syllabus gave efficiency, viva would

not fail 70 per cent.

4. He says it is unfair to accuse examiners of lack of brains. I did not do so. I said "education authorities and the Pharmaceutical Council," and our examiners have been the severest critics of our examinations for twenty-

five years.

5. He says "Jay Mack's" curriculum would involve great expense and need an army of professors and clerks. Sheer nonsense! Registered apprentices in the drug-trade never exceeded 300 in our best years, now 100 or less; say, six a week, 1914; work for one clerk at trade-union "ca'-canny" rates (two a week, 1921). And as for visits to works, all my apprentices have gone for fifteen years at a cost of a 5s. fare each. Every pharmaceutical college has done it for ten years, and business houses, like Evans, Ayrtons, B.D.H., take parties of students round their premises regularly without any trouble, and even give them high tea and some speech-making.

All examinations are a necessary test, but what we do want, and hope to get from this new committee of the Pharmaceutical Council, is a syllabus to give us practical efficiency first.

JAY MACK. efficiency first.

D.D.A. Card for Prescribers

SIR,—The D.D.A. card for prescribers should prove as popular and as useful as the one already prepared for pharmacists. These cards should be obtained and sent to every doctor in the country, and the work might well be taken in hand by the local associations. Apart from the concise information as to the formalities to be observed and the safety limits of the drugs concerned, not the least of the advantages to be obtained by the distribution will be to draw the attention of practitioners to the fact that the Regulations are already in force, as many of them have a hazy idea that the Act is only proposed and some do not even know that there is such an Act. At any rate, if each doctor were provided with a card by the local association for the district there would be no excuse for sending out scripts not conforming to the Regulations.
Yours faithfully,

FORMALIN (19/9).

Appreciations

I believe I have read every issue of the C. & D. since 1879—having most of that time specialised in the pill making and coating and compressed-tablet work.—A. A. (22/8).

I. J. K. (25/8) writes from New York: The ubiquity of the C. & D. is remarkable. Several times in travelling to the office I have been agreeably astonished to see a copy of the C. & D. tucked under the arm of a subordinate on his way to or from the city. The most startling thing of all was to bump into a man on one of the stations of the Brighton Beach Railroad who was too absorbed in the C. & D. to look out for a discharging trainload of passengers. I felt tempted to introduce myself and ask him how he came to be reading a London to the control of the came to be reading a London to the came to be reading as London to the ca trade journal on an out-of-the-way station platform in Brooklyn.

Legal Queries

- In Doubt (26/9).—UNREGISTERED DENTAL 'PRACTITIONERS may possess and purchase and chemists may sell to them local anæsthetic solutions containing not more than 1 per cent. of cocaine. The text of the authorisation was printed in the C. & D., August 27, p. 58.
- F. H. L. (20/9).—We recommend that Insurance prescriptions containing amounts of "dangerous" drugs which come within the limits of the Dangerous Drugs Act should be copied in the prescription-book, kept in accordance with the Pharmacy Act, 1868. From this the necessary reference is made in the record-book.
- J. L. P. (21/9).—The provision regarding the repeating of a prescription for "dangerous" drugs not more than three times only refers to the particular prescription. There is nothing in the Regulations to prevent a medical practitioner writing a fresh prescription, nor is there any limit to the amount of drug which he may order at a time.
- E. (28/9) writes: Is it really the fact that codeine and its salts are outside the Dangerous Drugs Act? Some doubt exists here, and I know at least two chemists who insist upon doctors complying. [Codeine or methyl morphine is not morphine, nor is it a salt of morphine. It does not, therefore, come within the definition of a "dangerous" drug as given in the Dangerous Drugs Act.]
- H. J. H. (10/9) and T. W. Co. (7/9).—We had not intended publishing separately the Supplementary Percentage Table (C. & D., September 3, p. 47), but we hope to publish the two tables as one list in The Chemist and Druggist Diary, 1922. We are inviting manufacturers of proprietary articles who have not yet responded to our appeal to send us the necessary information, so that we can make the table more complete.
- C. C. (30/8).—(1) We are much obliged to you for calling attention to the error in the opium limit in pills; we mentioned the matter in the C. & D., September 10, p. 47, and shall correct it in future editions of the D.D.A. card. (2) The chlorodyne limit given on the D.D.A. card is a "safety" limit. The exact amount that can be put in is shown in the table printed in the C. & D., September 17, p. 51. We deliberately recommended a limit which would be quite safe in use.

Drugs (10/9).—(1) The title "Blood Mixture" does not constitute a ground of liability to medicine-stamp duty, but other wording on the label may involve liability. (2) "M—'s cough essence" is a dutiable title, but the tablet label is not liable, as there is no recommendation on the label for an ailment. (3) The fact that "an Englishman with the Irish pharmaceutical qualification" cannot sell poisons in England depends upon the fact that the qualifications under the Pharmacy Act (Ireland) are not recognised in Great Britain, although they are in most of the British overseas possessions.

Como (19/9) asks whether an I.O.U. given thirty years ago is now legal and involves any liability on the giver or his estate. [An I.O.U. is not a debt, but merely evidence by which proof of a debt may be given or supported. Therefore, unless the debt is otherwise statute-barred, the utility of the I.O.U. as a piece of evidence is not interfered with by lapse of time. The Statute of Limitations providés that a debt cannot be recovered by action unless it is sued for within six years from the date when it could first be recovered, unless in the meantime some acknowledgment in writing had been given or some payment had been made on account of principal or interest.]

 $R.\ C.\ (3/9)$.—The method given for calculating percentages w/w ($C.\ d$). September 3, p. 47) is the one which leads to least confusion where specific gravities are variants. One per cent. will give you 4.375 grains per fluid ounce just so long as the specific gravity is 1.00 and the weight of a fluid ounce is 437.5 grains; but where the specific gravity is less or greater than unity, the number of grains per fluid ounce will be more or less than 437.5 as the case may be. Thus, you will

find the B.P. gives tr. opii as containing 1 gr. morphine (anhydrous) in 110m, which harmonises with the sp. gr. 0.909 to 0.910. This would account for the difference you refer to.

J. S. (14/9) asks for information as to the possibility of claiming a rebate on income-tax by giving the average income for the last three years; or is this a privilege granted to ex-Service men? [This privilege is not confined to ex-Service men. Any person making a return for income-tax under Schedule D—that is, in respect of profits made from any business, trade, profession, or occupation other than an official occupation—should return as his income the average of his income for the three previous years. If the business is one newly commenced within the three years, the practice is to take the whole of the profits of the first year for the first assessment, and for the third year the average of the first two years.]

Enquirer (13/9) intends to take his daughter into his shop as an apprentice for four years, and he asks if it will be necessary to have indentures if he pays her a salary and gives her board and lodging. He also wishes to know if he can debit the expense in his books, so as to have it allowed by the income-tax authorities; and, further, must he insure under the National Health Insurance and Unemployment Act schemes? [A regular apprenticeship indenture should be entered into in this case. The payments made by way of salary for work done by the apprentice in connection with the business can be looked upon as trade expenses, and deducted from the profits on return for income-tax. In the case of an apprentice who lives in, the cost of his or her keep may also be charged as an expense in the master's books and deducted from gross profits. As a salary is paid, the apprentice comes under the Insurance Acts and must be insured.]

H. H. (33/31), by an agreement entered into in January last, became the tenant of premises consisting of a dwelding-house and shop, at a yearly rental of 60l., and as a condition of getting the tenancy he paid to the landlord 200l. In the formal agreement this 200l. is described as money paid for the business of a motor-cycle dealer carried on at the house. In fact, there was at the time no motor-cycle business carried on, and "H. H.," who understood that the 200l. was security for the rent, asks what are his rights about it, and can he recover it. [As these premises are partly used as a dwelling-house they come within the Rent Restriction Act, and no fine or premium can legally be charged as a consideration for letting them. The 200l. was clearly a fine, and it was an offence in the landlord to require it to be paid. "H. H." may either sue for the return of this money, or he may deduct it from the rent due by him for the premises until the whole is repaid.]

H. E. H. (15/9).—Sale of Dover's Powder.—Your inquiry raises the interesting question as to whether pulv. ipecac. co., an exempted preparation under the Regulations of the Dangerous Drugs Act, is exempted under all conditions. On consideration of the matter we hold the opinion that, as Dover's powder is exempt from the provisions of the Dangerous Drugs Act, it is exempt in all circumstances. There are no conditions attached to the exemption, and if, as in your case, you employ it as an ingredient of an influenza pill, there seems no reason why you should not do so without infringing the Dangerous Drugs Act. The reasons which presumably influenced the authorities to exempt were that the sale is already regulated by the Pharmacy Acts—pulv. ipecac. co. is a Part I. poison—and that it is impossible to take a poisonous amount of opium in the form of pulv. ipecac. co. without the emetic action of the ipecacuanha coming into play. It should be remembered also that the public often mix Dover's powder with sp. æther. nit., and sometimes request the chemist to do this for them. Pulv. ipecac. co. is also employed in pills and mixtures. Bearing this in mind, you will see that there is no reason why pulv. ipecac. co. should not be compressed, made into pills, and be an ingredient in other preparations, without the sale being an infringement of the Dangerous Drugs Act.

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to puhlish supposed formulas for them.

L. L. (19/9).—Depilatory.—The following from Martindale's "Extra Pharmacopæia" is an effective depilatory:

Barium sulphide (in fine ... 1 to 3 parts powder) 4... Starch powder 3 parts Mix.

Make into a paste with water at the time of using, spread over the part required, and remove at the end of five or

J. M. B. (19/9).—The conditions upon which we accept formulas for "known, admitted, and approved remedies" for inclusion in *The Chemist and Druggist Diary* are given on the first page of this issue. We do not supply the numbers before publication, as these cannot be used until the formula is made public.

Pharmacien (15/9).—The Oldest Chemists in Great Priarmacien (15/9).—The Oldest Chemists in Great Britain.—It is not easy to reply definitely to your inquiry as to the oldest chemists in Great Britain. Allen & Hanburys was founded in 1715. The Bishop Hooper Pharmacy, although carried on in a house built in the sixteenth century, was only associated with the drugtrade from Victorian times. The "Oldest Chymist's Shop in England," at Knaresborough, figured in "Chemists' Windows," was established, we believe, in 1720.

Ignoramus (5/9).—The shrub of which the fruits are sent is the wild guelder rose, or snowball tree, Viburnum Opulus. The fruits are remarkable for the strong odour of valerian when crushed. The bark sold in the United States under the name of cramp bark, or cranberry-tree bark, is considered to possess in a lesser degree the properties of Viburnum prunifolium. It is used as an antispasmodic in asthma, hysteria, puerperal convulsions, and dysmenorrhea. The berries, although the presence in them of valerianic acid is so pronounced, do not appear to have been tried in medicine. to have been tried in medicine.

- S. A. R. (22/7).—We are unable to supply details of the blending of tobacco for cigarettes.
- V. M. Co. (Lahore) (4/8).—Colouring for Syrup.—The red colour for an acid syrup can be obtained with croceine scarlet (1 oz. dissolved in 20 oz. water) or cudbear (1 oz. percolated with 8 oz. of a mixture of 1 part spirit and 2 parts water).
- A. W. (15/9).—Book on Children's Diseases.— Muskett's "Prescribing and Treatment of Infants and Children" (Pentland, Edinburgh, 6s. 6d.).
- B. R. (19/9).—Courses in pharmacy and pharmaceutical chemistry would be helpful to a manufacturer of toilet preparations. The Educational Number (August 20) gives particulars of the institutions in London where instruction can be obtained.
- C. E. K. (Huelva) (3/8).—CEMENT FOR JOINING CINE-MATOGRAPH-FILMS.—Acetone or a liquid glue made with acetic acid is employed for joining cinematograph-films made of non-inflammable celluloid. For the inflammable variety, a mixture of equal parts of amyl acetate and acetone is required.
- H. P. (19/1).—HOMGEOPATHIC TREATMENT.—Dr. J. H. Clarke's "The Prescriber," published by the Homceopathic Publishing Co. at 5s., is in dictionary form and gives a concise account of diseases and their treatment.
- F. J. N. (29/8).—Book on Paint-mixing.—Jennings' "Paint and Colour Mixing" (Spon, 5s.) will suit your purpose.

Factory (12/9).—TRANSFER PASTE, used in clothing factories for transferring designs through perforated patterns, consists of a mixture of ultramarine, sufficient to give the desired colour, with soft paraffin, sufficient to form a paste, and also a proportion of chalk.

Giltspur (12/9):—DENTAL CAVITY VARNISH.—The following are representative formulas:

T 1 part Gum dammar Camphor 6 parts ... 6 parts ... 25 parts ... 6 parts Gum copa! Resin Ether 4 parts Ether ... 50 parts ... 4 parts

W. T. S. (15/9).—(1) GLYCERINUM THYMOLIS Co.— Sodium bicarbonate $87\frac{1}{2}$ grs. ... Borax 175 grs. Sodium benzoate 70 grs. Sodium salicylate 45 grs. ... 2½ grs. 4½ grs. Menthol Thymol ... Eucalyptol 13m ... 5m Pine oil Wintergreen oil 3m Alcohol $\frac{1}{2}$ oz. 2 oz. Glycerin Carmine solution 50m ... Distilled water to make 20 oz.

Filter bright by means of kaolin.

Solution of Carmine

1 oz. $87\frac{1}{2}$ gr. Carmine 7 oz. 2 oz. Solution of ammonia ... Potassium citrate 7 oz. Glycerin Distilled water to make ... 20 oz.

Dissolve the carmine in the ammonia solution and the glycerin in a water-bath, and continue the heat until the ammonia is dissipated; cool, add the potassium citrate and water to make the required volume.

(2) Bronzing Brass.—The solution used consists of

... ... 1 gall. ...

The first bronzing is scratch-brushed, and the brass re-immersed in the solution, which produces a more uniform tarnish than the first.

- J. J. M. (8/9).—The best means of ridding a building of bats is to trap them. This is done by placing at night a lantern with a lighted candle in it at a convenient distance from the floor. The light attracts the bats, and as they fly round the lantern they are attacked with sticks or otherwise disabled.
- W. A. (26/8).—CREAM OF TARTAR SUBSTITUTE.—This powder, known as "cream powder," consists of acid calcium phosphate and corn-flour in approximately equal proportions.
- J. C. M. (9/9).—The sample of powder you send appears to be a tin oxide. In general it has the properties of ordinary tin oxide; but it is more soluble than usual.

Retrospect of Fifty Years Ago

Reprinted from "The Chemist and Druggist," October 14, 1871

Coca Chewers

Coca Chewers

There are certain signs in the physiognomy of a coca chewer which manifest the influence of the plant; they are characterised by a pateness of the lips, a slight yellow tinge about the angles of the mouth, and the teeth are stained with a bright yellow. With its use the countenance, which usually presents an afflicted aspect, becomes more animated; the eyes assume a brilliant appearance; the pulse is strong and frequent, and there is a desire for physical exertion. These are, undoubtedly, signs of the stimulating and tonic effects of this plant. Abuse of the coca occasions, according to some authors, signs of premature old age, which are marked by an unsteady step, a yellow skin, a want of brilliancy in the eye, and a general indifference or apathy. I have seen hundreds of Indians, during my residence in Bolivia, who have chewed the coca-leaf from youth upwards, many of whom had attained their eightieth year, and who showed no signs of having been affected by the plant. I have only seen the signs above mentioned in very advanced age, for the Indians are proverbial for longevity.

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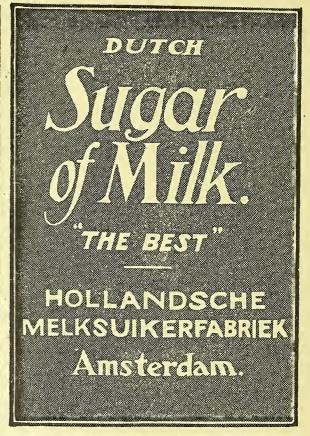
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ALBERT ST., PARK ST., LONDON, N.W. 1.

Cephos

For NEURALGIA, HEADACHE, RHEUMATISM & INFLUENZA.

TRADE TERMS:

MINIMUM RETAIL PRICE 1/3 3/-PRICE ... per doz. 12/- 30/-

Bonus of 101- on £5 worth for 14 days' Window Display Terms: Cash in one month. Orders carriage paid. Minimum Retail Price: Loose powders 2½d. each, yielding a profit of 99%.

CEPHOS LTD., BLACKBURN, Lancs.

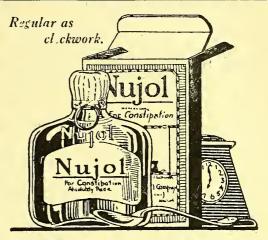
PLANO the best thing for Rough Skin and CHAPPED HANDS.

Sold everywhere at the popular price, 3d, per tablet. TRADE PRICES—6 dozen, 11/6; 12 dozen, 22/Carriage Paid, 13 to dozen, for Cash with Order. Discount—Orders of £1, 2½%; £5, 5%; £10, 7½%

SPECIAL OFFER.

13 dozen packets with advertising matter, 22/-; less 2½ % (£1.1.5 net). Cash with Order.

MILNER'S CHEMICAL CO., LIVERPOOL.



Harvest Big Nujol Profits the Year Round

Nujol is a big profit producer for the chemists who display and push it.

Because-

Nujol gives a good margin of profit.

Nujol ties up no capital in slow-selling sizes.

Nujol advertising covers the Country and is constantly at work making new customers for you.

Nujol sells quickly and easily.

Are you getting a big share of Nujol profits? Let our window displays and our Nujol booklets for counter distribution help to make you local headquarters for Nujol.

Send to-day for the window display and other sales helps.

Nujol

For Constipation

NUJOL Department, Anglo-American Oil Co.,

Minerva House, Bevis Marks, London, E.C.3.

LORIMER-MARSHALL, Ltd.

FOR YOUR

Winter Specialities

Lung Tonic, Children's Cough Mixture, Cod Liver Oil & Cod Liver Oil Emulsion, Honey & Lemon Linctus,

Special Low Quotations for Season's Requirements.

LORIMER-MARSHALL, Ltd., 12 Tower Hill, E.C.3

Factories - Britannia Works, Cold Blow, Hatcham, S.E. 14

1st September, 1921.

DANGEROUS DRUGS ACT

The necessary Registers to meet the requirements of the above Act, which came into force 1st September, 1921, have been specially compiled.

Have YOU your Registers?

OPIUM - - - Post free 3/MORPHINE, COCAINE, etc., Post free 4/-

We hold a large stock, ready for immediate dispatch.

FORD, SHAPLAND & CO., Ltd.

Labels & Showcards — PRINTERS — Cartons & Envelopes.

Great Turnstile, High Holborn, London, W.C.1.

Telegrams: "Forshapco, Westcent, London."

Telephones: Holborn 5503 & City 65

Millions of Pastilles! — and how they are made

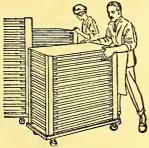
Of interest to all Chemists, Pharmacists and the Trade, being a record of a visit to the Laboratories and recently-completed new factory of Messrs. Potter & Clarke, Ltd., where the most modern machinery for the manufacture of Medicated Pastilles, Five Bark Jubes, Lozenges, Cachous, etc., is installed.



Straining the Gum through turget sieves.

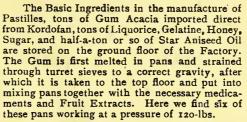


Mixing Pans working at 120-lbs. pressure.



Wooden trays filled with starch.

Space will not permit us to describe other deportments in the building, such as Drug and Sugar zinning and stiting hrouts sitting hrouts sitting hrouts sitting hrouts sitting hrouts sitting hrouts sitting hrouts where the famous Potter's As.hma Cure is ground and ja ked.



On the same floor are seen stacks of wooden trays filled with starch ready for printing the various Pastille shapes. Each tray of starch can receive about 700 impressions at one time which means approximately 5 lb. of Pastilles per tray or 500 trays to the ton, Some 2,000 trays are in constant use in the factory.

The printed trays pass over endless bands through the filling machine which accurately measures the necessary amount of medicament mixture for a whole row, and deposits about 40 Pastilles of uniform weight and size with each turn of the plunger. As each tray is filled with the mixture it is built up on a trolley which transports the whole to a Sutcliffe Drying Cupboard where hot air is blows through a radiator and constantly circulated over the Pastilles which drys them evenly and quickly.

When dry the starch moulds containing the Pastilles

When dry, the starch moulds containing the Pastilles are tipped into a sifting and brushing machine which consists of two sections, a sifting and tray filling device in one, and a cleaning drum in the other. In this machine the Pastilles are cleansed from starch dust. The starch falls into a further series of travs, which are evenly filled ready for reprinting, whilst the Pastilles themselves pass under a series of brushes which removes any remaining starch dust. From the sifting and brushing machine the Pastilles travel through a hopper and shoot to the floor below where they are crystallized or polished according to the nature of the pastille. A short visit to another drying cupboard after which they are packed in tins ready for sale.

For small batches and for customer's own formulae, Pastilles are poured by hand.

The whole plant has been devised to eliminate waste and to save labour. As an example of this, the live steam used in the high pressure boiling pans, passes through the drying cupboards, and afterwards as exhaust steam melts the Gum Arabic and Liquurice, finally condensing in large tanks in the basement. Even here it is not allowed to remain idle as the top of the tanks have been converted into trays for drying Aloes. The Boilers are fed from these tanks containing hot water thereby saving considerable quantities of coal during the year.



The Filling Machine.

The Sifting and Brushing
Machine.



Pouring Pastilles by hand.

This is a fac-simile of the famous "Winged Lion" Pastille Tins.

Price Lists sent on receipt of Business Card.

POTTER & CLARKE LTD.

DRUG MERCHANTS & MANUFACTURING CHEMISTS 60, 62. 64 ARTILLERY LANE LONDON · E. I AND AT 24 LUNA STREET, GREAT ANCOATS, MANCHESTER.

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for **Pharmaceutical** and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD. LIVERPOOL MANCHESTER

start dyeing."

SING Ralty Dye is simplicity itself, if you can use a fountain-pen filler, you can use Ralty -it's just the same. A thin filter-cloth encloses the dye powder, and the colour can only leave the tube in solution.

The colour is rich, even and fadeless, and can be made bright or subdued by simply pressing the bulb.

Housewives everywhere are asking for Ralty Dyes. Supply them and get a good profit! "Once bought, always bought," is the retailer's

WRITE for SAMPLES & PRICES

Art Showcards, Counter Boxes and strong advertising are making the Ralty Dyes an easy and profitable line for the Trade. Write direct to:—

&

RALTY WORKS, FARNWORTH, BOLTON.

SALVO PETROLIA

The Perfection of Petroleum Jelly MANUFACTURED SOLELY BY

THE DEE OIL COMPANY. Ltd. DELTA WORKS, BOOTLE, LIVERPOOL.

Packed in barrels, kegs and smaller packages according to requirements.

Other Grades PETROLEUM JELLIES, WHITE BASES, ETC. Samples and prices on application.

"OLEUM DEELINÆ," a certain cure for Eczema.

Phone: 186 Bootle.

Wires: " Cestrian Liverbool.

DOWELL'S PATENT



SELF-CLEANER.

When the Mouthpiece is removed all foulness

Assorted Shapes and Sizes to sell at 3/6 each. Send postcard for sample dozen.

BROTHERS HARWOOD Est. 1898. Manufacturers of Briar Pipes and Smokers' Articles,

8/20 Richmond Street, LIVERPOOL.

The . . .

Hall Mark

Chemist

is essentially

uality

SEND US .. YOUR NEXT ENQUIRY.



To combine the quality of his Medicines and general preparations, it is also essential that he should employ the very best quality of Printing, whatever the requirements may be. The Real Quality of our work, whether it is a

LABEL, CARTON. ENVELOPE,

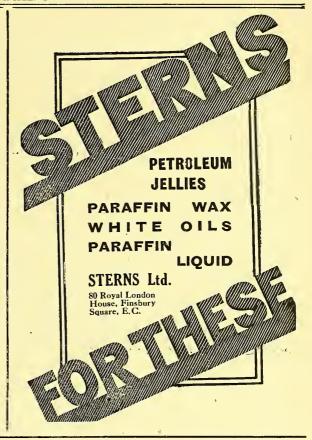
presents a most attractive combination, and good quality is obtained therefore throughout.



Thomas Waide & Son

Full set of Samples to Colonies 10.6. which we credit on orders of £10 and upwards.

Chemists' Printers, KIRKSTALL ROAD. LEEDS.



PETROLEUM JELLY.

Gough, Kidston & Co.

Tel. No. : Avenue 8057. (2 lines).

Tel. Add.:

"Kidstonism,
Bilgate, London."

Chemical Manufacturers,
Tanning & Dyewood Materials & Extracts, Gum & Wax Merchants.

43/45 Gt. Tower Street, London, E.C. 3. Tel, No.: Hop 2029.

Works:

BERMONDSEY.

Established over a Century. SANUEL THORNLEY, LTD. WHOLESALE DRUGGISTS AND DRYSALTERS, OIL IMPORTERS, GREASE AND VARNISH MANUFACTURERS. Members of the Methylating Company, Limited. Telephone: STI Central (3 lines). Telegrams: TURPS B'HAM." Works - Slaney Street, Wharf Street. JOHN BRIGHT STREET. JOHN BRIGHT STREET. JOHN BRIGHT STREET. JOHN BRIGHT STREET.

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New CHMWAL

Lines

Profitable Pearlspring Health Salts Aquaperia Salts, P.A.T.A.

HANDSOME PROFITS ASSURED. WINDOW DISPLAYS.

Prices and Terms on Application.

CAMWAL LTD. LONDON, MANCHESTER, BIRMINGHAM, BRISTOL, HARROGATE. City Office: 52 Queen Victoria Street, LONDON, E.C. 4.



Sells readily ALL the time.

COLEMAN & CO., Wincarnis Works, NORWICH.

IMPORTANT NOTE

TO CHEMISTS

WITHOUT LICENCES

It has been established by law that Registered Chemists may sell "Wincarnis with Quinine" without a licence.

The new vitalising food proved to contain the three principal vitamines

YOUR WHOLESALERS CAN SUPPLY YOU

Manufacturers:

Food Specialists,

CALLARD & CO., 74 Regent St., LONDON, W. 1.

atch:

"Nuvita" begins a new era in Digestive Biscuits. Its composition is based on the latest discoveries of medical science. Its wonderful effects are bringing it daily into greater and greater demand. Lancet says :- " Useful in a number of conditions."

New and Wonderful Digestive Biscuit

The merits of "Nuvita" are now being brought to the notice of the public by professional recommendation and by advertising. Be prepared!

Write for trade terms and full particulars. Kingston Cake Bakery, GLASGOW.

MALT

Specialis?

MALT EXTRACT

WITH

PREPARED UNDER IDEAL CONDITIONS FROM FINEST QUALITY MATERIALS SUPPLIED IN SPECIALLY ATTRACTIVE CONTAINERS WITH CUSTOMER'S OWN NAME & ADDRESS

YOU CANNOT BUY BETTER.

JEFFREYS, MILLER & CO., LTD., Leyland Mills, WIGAN.

CULINARY ESSENCES PACKED CULINARY ESSENCES FOR FLAVOURING CUSTARDS, PUDDINGS, BLANCMANGE, CAKES, ICES, JELLIES, SOUPS, GRAVIES, AND MADE DISHES. PREPARED IN A LARGE VARIETY OF FLAVOURS, INCLUDING LEMON, ALMONDS, VANILLA, etc. 1-0z., 1-0z., 2-0z., 4-0z., 6-0z., 8-0z. and 1-lb. sizes. SPECIAL QUOTATIONS FOR BULK LOTS. Head Office and Laboratories: Essence Distillers, Jahrowning St., Walworth Read, S.E. 17. HULL & LONDON. TREEGRAMS: "GINGER HULL." "BUSHNORTH, WALROAD, LONDON." CABLES: A B C (5th Bb.,) BENTLEY'S.

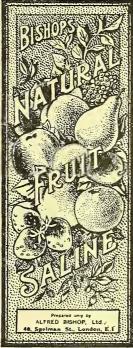
BISHOP'S NA FRUIT SALINE

What it is.

BISHOP'S Natural Fruit Saline

> is free from sugar or saccharine, yet makes a delightfully palatable beverage. Clears the liver and kidneys, and acts as a laxative. It is manufactured in small granules and keeps well in any climate.

It pays to push BISHOP'S



What it costs.

BISHOP'S Natural Fruit Saline

retails at 2/3 per bottle P.A.T.A.

Wholesale price, 20/per dozen.

5 dozen - - £5 0 0 10 % discount 10 0

Net £4 10 0

Carriage Paid.

Thus showing a profit of 9d. per bottle.

Attractive show material and price cards sent with each order.

ALFRED BISHOP, LIMITED, 48 Spelman St., LONDON, E. 1

If you want good value in

FOREIGN AND BRITISH WINES.

"WIN - FERRO" TONIC BLOOD WINE.

LIME CORDIAL. SQUASH. AND

For Prices & Samples write to-

(Established 1847)

48 St. Anne Street - Liverpool.

Highest Awards at all International Exhibitions
where shown.

SUGAR CHEAPER THIS MEANS THAT Mason's Extract of Herbs Will be in big demand this season and chemists are requested to replenish their stocks. Send for Price List to Newball & Mason NOTTINGHAM.

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HAVE YOU CONSIDERED THE

"SELL AT SIGHT"

POSSIBILITIES OF

BURGOYNE'S

UNIVERSAL

FRUIT SALINE?

ADD TO THIS—THE PROFIT OF 9½d. ON EACH BOTTLE—AND YOU WILL AGREE IT IS WORTH YOUR WHILE TO WRITE US FOR A SPECIMEN WRAPPER & SPECIAL TERMS FOR A WINDOW DISPLAY.

BURGOYNE, BURBIDGES & CO., LTD.

EAST HAM, LONDON, E.

Ŏ.

A SATISFIED CUSTOMER IS THE CHEMIST'S BEST ADVERTISEMENT

The Marvel Whirling Spray Syringe



Gold Medal Awarded, Paris, 1902, by the Société d'Hygiene of France

vaginal Syringes. Particular attention is called to the fact that by reason of its peculiar construction the Marvel Syringe dilates and flushes the vagina with a volume of whirling spray, which smooths out the folds and permits the injection to come into contact with and cleansing the entire surface.

Fully Protected by Patents.





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You can safely recommend it.

Has no rival on the market, is well advertised, pays a good profit, quality guaranteed. The MARVEL is returnable for exchange if found defective and reported promptly.

Trade price, 125/- per dos. Retail price, 15/- each.

FASSETT & JOHNSON, Ltd. 86 Clerkenwell Rd., London, E.C. 1.

 $\overline{\Box}$

(ii)



(The World-Famous Corn Remover.)

"Gets-It" is a liquid which dries at once when applied to corns or calluses with the glass applicator that accompanies each bottle. Stops pain at once and soon loosens the corn or callus so that it can be lifted right off.

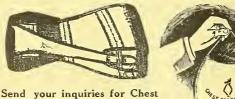
Used by Many Millions throughout the balance of the world, and certain of enthusiastic reception here.

Now Distributed in Great Britain through

THOMAS CHRISTY & CO.

10 & 12 Old Swan Lane, Upper Thames St., London, E.C.4.
 Manufactured by E. LAWRENCE & CO., Chicago, U.S.A.

WE GUARANTEE EVERYTHING WE SELL



Protectors, Abdominal Belts, Suspensory Bandages, Finger Stalls, Maternity Corsets, Magnetic Belts, Wrist Straps, Surgical Hosiery, etc., to the Actual Makers—

A. B. FROST & CO. Surgical Hosiery Works, BEESTON, Notts. (2)

Established 1843.

J. PILLISCHER,

88, NEW BOND STREET, LONDON, W. 1.

Manufacturer of

SCIENTIFIC INSTRUMENTS

and Sole Manufacturer of the

CLINICAL THERMOMETER

International Exhibition Awards:

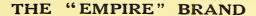
12 GOLD MEDALS 14 GRANDS PRIX HORS CONCOURS

Sole & Exclusive Agent for Argentina, Uruguay, Paraguay and Brazil:

Eugenio M. Etchegoin, Calle Maipu, 731, BUENOS AIRES.

Druggists' Sundries

HOT WATER BOTTLES.





HEMISTS who have built up a reputation for reliable Hot Water Bottles continue to order our well known "EMPIRE" brand of these goods. Do not risk trying an unknown make.

One quality only—the Best. Guaranteed for two years.

Prices as follows:

Sizes: inches 6×8 6×10 6×12 8×10 8×12 8×14 10×12 10×14 **Each** 3/9 4/2 4/6 4/9 5/3 5/9 6/- 6/6

Each Bottle in a strong paper bag with directions for use.

HOT WATER BOTTLE COVERS. Scarlet or Grey Plush. Sizes: inches 6×8 6×10 6×12 8×10 8×12 8×14 10×12 10×14 Each 1/5 1/8 1/10 2/- 2/2 2/8 2/10 3/3 MUFF WARMER. Drab Rubber, 4×6 inches. Each 2/-

SEAMLESS ENEMAS

| Fig. 987. | The "B.E.M." (best English make) with bone rectal pipe, etc., complete | Per doz. |
|-----------|--|----------|
| J | in card box | 26 0 |
| | " in superior card box | 28 0 |
| | " in leatherette case | 30 0 |
| | " extra large and stout, the finest article made | 34 0 |
| | Special Line, red unpolished, stout, in card box | 30 0 |
| | ,, in leatherette case | 34 0 |
| 983. | The "Empire," black polished, in card box | 27 0 |
| | , in leatherette case | 30 0 |
| 275. | Warne's patent pulse valve enema, arabesque rubber, in card box - | 45 0 |
| | " in leatherette case- | 49 0 |

AIR CUSHIONS

Fig. 1194. The "Empire" red india rubber Air Cushion—

| 5. 11/1. | The Zingito rea major tubber in custion | | | | | | | |
|----------|---|--------|--------|--------|--------|--------|--------|--------|
| | Diameter - | 14 in. | 15 in. | 16 in. | 17 in. | 18 in. | 19 in. | 20 in. |
| | Each - | 6/6 | 7/- | 7/6 | 8/6 | 9/6 | 10/6 | 12/- |
| Square | Diameter - Each - shape, ,, - | 10/- | 11/- | 12/- | 13/- | 14/6 | 16/- | 18/- |

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory.

Write for illustrated price list post free for the asking.

BURGE, WARREN & RIDGLEY, LTD.

91 & 92 GREAT SAFFRON HILL, LONDON, E.C. 1.

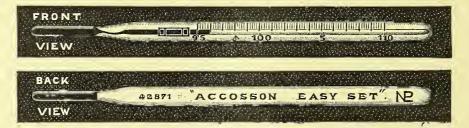
A. C. COSSOR & SON

(ESTABLISHED 1859).

CLINICAL THERMOMETERS

Government Certified

Manufacturers of Clinical Thermometers for over 60 years. CONTRACTORS TO ALL GOVERNMENT DEPARTMENTS.



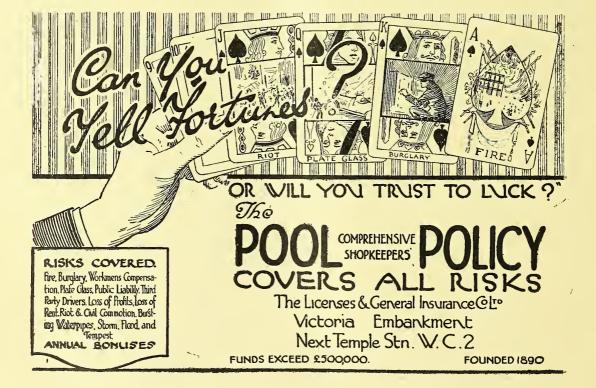
Original Patentees of the "Easy Set' Clinical Thermometer.

"ACCOSON" WORKS, VALE ROAD, LONDON, N.4.

Tolephone: 1880 Tottenham.

Telegrams: "Fracosson, Phone, London."

(2)





HOT WATER **BOTTLES**

Heavy English Make.

(Fitted with patent steam outlet valve to avoid danger in filling.)

 $6 \times 8 \ 6 \times 10 \ 8 \times 10 \ 8 \times 12 \ 10 \times 12$ SIZES 9 oz. 10 oz. $11\frac{1}{2}$ oz. $12\frac{1}{2}$ oz. 15 oz.

PRICE EACH 3/9 4/2 4/9 5/2

GREY PLUSH 1/5 1/8 2/-2/10

THOS. SWALES

20 - 24 BUTTS COURT & 89 ALBION STREET

LEEDS

YOUR ENQUIRIES SOLICITED FOR OUR

GUARANTEED

BOTTLES



OWN NAME (IF REQUIRED)

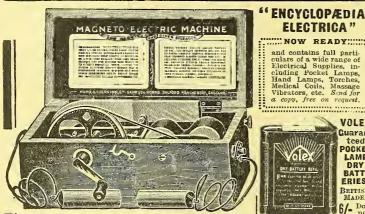
LOTS OF DOZENS.

ARTHUR BERTON, Limited,

15-17, WORSHIP STREET, LONDON, E.C.2 MANCHESTER and GLASGOW.

77 Lower Chatham Street.

Telegrams: "Aybelim, Finsquare, London."
Phones: Clerkenwell 1347, 1348, 1349 (Private Exchange).



ELECTRICA" NOW READY:::::

and contains full parti-culars of a wide range of Electrical Supplies, in-cluding Pocket Lamps, Hand Lamps, Torches, Medical Coils, Massage Vibrators, etc. Send for a copy, free on reguest.



VOLEX Guaranteed POCKET LAMP DRY ERIES. 6/- Doz.



Best Quality. Clear Type, 2/6 dozen net.

Half-opal Type, 3/- dozen net.





Assorted
beautiful designs. Fitted
with Pea
Lamp, Cord
and Adaptor.
10/- doz. net. Complete with Pocket Lamp Cases & Batteries. 20/doz. net.



The prices quoted above are for the complete Pocket Lamps, including Cases, Batteries and Bulbs.

MAGNETO MACHINES. British Made.

Made.

No. N3/3A. Very powerful and handsome Magneto, with 90g wheel drive Pitted in polished Mahogany case with lock and key lize 10 × 4 ½m. Really or dierful yabre.

No. N3/0A. Single Wheel Magneto in polished Pine case, required to the control of the control





Send now for the 'Encyclopædia Electrica.'

GOODS WELL ADVERTISED.

ARE HALF SOLD.

There are two reasons for the enormous sales of One is inside the packet—the Fairy Dyes. goodness of the Dyes-their reliability and their low cost. The other is that we spare no effort or

expense to advertise them well.

In every leading Ladies' Weekly and Monthly throughout Great Britain clever "copy" and striking illustrations are convincing the public of the superiority and economy of using "Fairy Dyes" and no others of for every home need.



I Do you want to increase your sales, your repeat orders, your turnover, with a dye that is easy to sell because it is so simple and so easy to use? There is a choice of twenty-two shades suitable for cottons, woollens, linens or silk, and already "Fairy Dyes" are recognised to be most reliable and economical.

C. Send us your order now. It is too late when you business with "Fairy Dyes," for the demand for "Fairies" is already very great and growing, and the man who has them in stock is the man who scores. The selling price is 2d. per packet and the public want them from you.

FAIRY DYES, LTD Regd. Office: 20 RENFREW STREET, GLASGOW. LTD.

Telegrams: "Fairyland Glasgow." Phone: 1902 Douglas. LONDON DEPOT: 292 Upper Street, ISLINGTON, N.1

You need this Stove in YOUR Stores.

It provides a warm and pleasant atmosphere for your customers and better facilities for your assistants to make sales.

Clark's Patent

generates only PURE HEAT without Smoke or Smell. It can be brought into operation at a moment's notice. Always that inviting and cheerful glow whether used with GAS or OIL.

NO FLUE REQUIRED, as all products are scientifically condensed. Highly economical. It is the stove for all who wish to increase their service-the stove for YOU.

Our little booklet will in-terest you, and be sent FREE if you write to-day stating if for GAS or OIL.

SYPHON CLARK'S STOVE CO., LIMITED,

164a Queen Victoria St., E.C.4. Warrington.



The only hygienic FLUELESS STOVE SAYERS, SILCOX, CUZNER & Co. Ltd. HULL.

THE

TRUSS

ARE ALSO MAKERS OF

BELTS, CORSETS SUSPENSORY BANDAGES CHEST EXPANDERS CHEST PROTECTORS PNEUMONIA JACKETS WRIST - STRAPS FINGER-STALLS

and all similar articles.

.......

LOWEST PRICES. IMMEDIATE DELIVERY.

The RICE PATENT ADJUSTABLE ELASTIC TRUSSES

PADS-Various Shapes and Sizes, Hard or Soft. ABDOMINAL SUPPORTS. and SUPPORTS for use following Operations. ALTERATIONS FREE IF NOT SATISFACTORY. Illustrated Catalogue Free.

MANUFACTURED ONLY BY

Wm. S. RICE, Ltd., 8/9 Stonecutter St., E.C. 4

Telephone: Holborn 466. Telegrams: "Ricevendo, Fleet, London."



Dr. Scholl's **FOOT EAZER**

Eases tired, aching feet, corrects flat or weak foot, etc; comfortable to wear in ordinary size footwear. Retail, 10/6 per pair.

r Scholl's Foot Comfort Appliances

are nationally advertised in the leading newspap.rs and periodicals, and the public is directed to the Chemists stocking Scholl goods.

Write to-day for Illustrated Catalogue.

The SCHOLL MFG. CO., Ltd., 1-4 GILTSPUR STREET, E.C.1



Careful Mothers insist on the NESTLE FEEDER

The superiority of the Nestlé Feeding Bottle is so obvious that doctors are advising it, nurses are recommending it and mothers insist on having it. Nothing is good enough for their little ones but a bottle which is perfect in hygienic construction; which cannot possibly harbour dirt or disease germs and which ensures that the food is taken without undue effort or excessive air.

Nestle's Feeding Bottle is constructed throughout on scientific principles, it is impossible for the child to detach the teat and rubber valve which automatically cling and are made from pure plantation rubber. Colic is prevented because the flow of air behind the milk is systematically regulated. The feeder, made of virgin glass, can be tilted to and will remain at any desired angle. Its capacity is 10-oz., and every part, including the box, is thoroughly sterilized before leaving the factory.

NESTLE Feeding Bottle

the Cheapest full-sized Feeding Bottle on the Market.

Easy to sell; brings good profit and rapid turnover. Write to-day for full details and current trade price list.

NESTLÉ'S (Advert. Dept.), 6-8 EASTCHEAP, LONDON, E.C. 3.

The Piper that Plays The Piper that Pays

"RODINE"-the Piper o' Perthpipes the Tune all right; the rats cannot resist it: it is the fascinating and fatal rat remover and-it pays the Chemist who pushes it. To appointed agents it yields nearly 100% protected profit. Are you an agent? If not, why not?

The Piper is reproduced from a new Window Bill done in several bright attractive colours and is now ready to be sent to all agents. Make sure you get yours as agent.

Ask for Trade Terms from the Proprietor.

HARLEY Manufacturing

29 High Street, PERTH.



BOTTLES OF EVERY DESCRIPTION **FOR**

CHEMISTS, DRUGGISTS and PERFUMERS, &c.

JARS and POTS of various manufacture for Creams,

Extracts, etc.

TRY:-HOUSSET & CO

16 Rue de Grammont, PARIS (Opéra 2º).



KNIFE

The original and only reliable preparation for Cleaning and Polishing Cutlery, &c.

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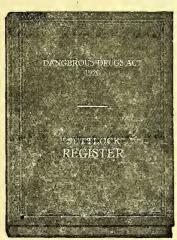
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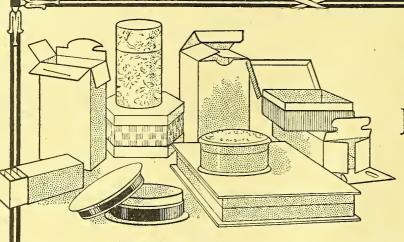
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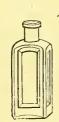
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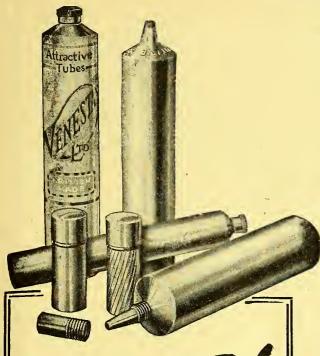
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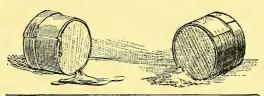
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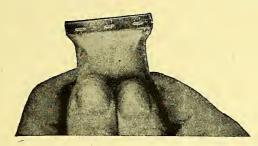
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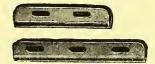


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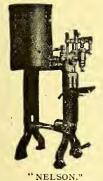
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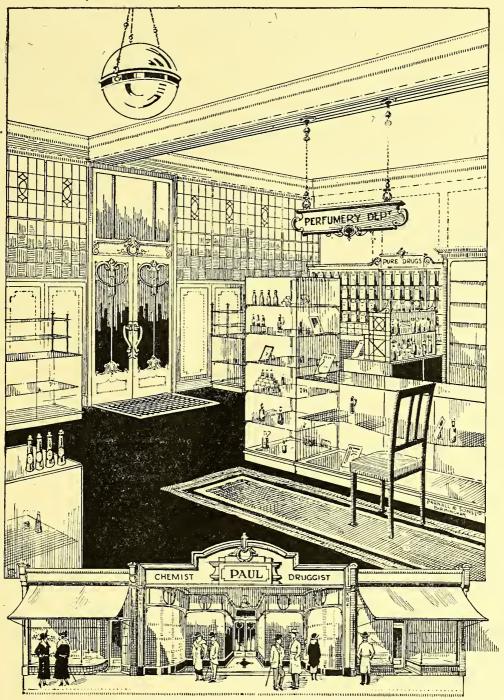
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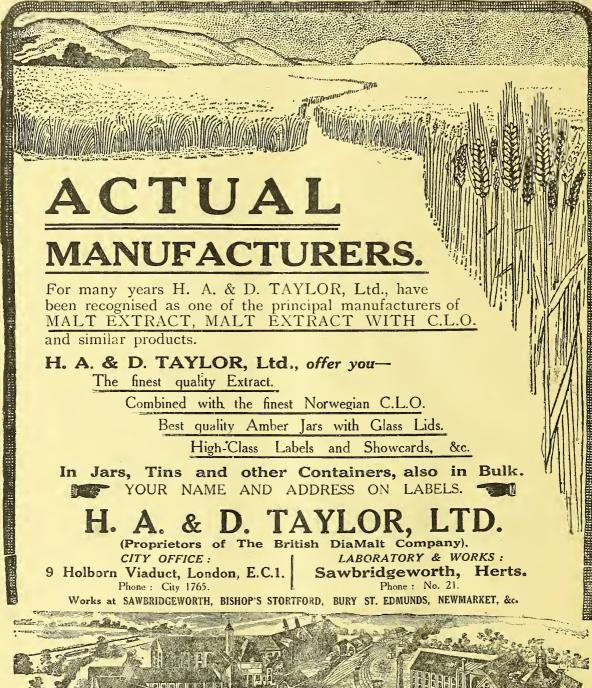
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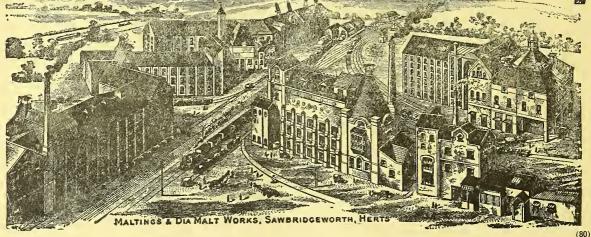
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OCTOBER 1 1921

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5.—EARL'S COURT.—Old-established high-class Dispensing and Retail Business; neglected, but with excellent opportunity for energetic Chemist to make a good business; nicely fitted shop, in busy thoroughfare; offers invited.

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All Valuations have the personal attention of F. J. Brett, M.P.S.

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174 VICTORIA STREET, S.W. 1.

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Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, Sc. Recommended by the British Drug Houses, Ltd., Messrs. Meggeson, Ltd., Messrs Barclay & Sons, Ltd., and many

other leading Wholesale Houses.

Make a Speciality of the examination and reporting fully to Vendors or Purchasers as to Value, Prospects, Conduct, &c., on Moderate Terms.

Registers kept of Businesses for Sale. No Charge to Purchasers. Enquiries invited Personal attention given in all cases.

We desire particularly to draw the attention of Coinnial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placedfin every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tarifffor such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers correspondents in this country.

SALES BY AUCTION.

By direction of the Senior Official Receiver in Companies Liquidation. In the matter of Farrow's Bank, Ltd.

CASES of new, clear Glass Phials, each fitted with a cork in wood postal box.

By order of the Owner, removed from Slough.

The Stock-in-Trade of a Chemists' Sundriesman and nine Formulæ for the manufacture of Toilet Requisites, with list of customers' names, printed stationery, etc.,

which will be Sold by Auction by MR. FRANK G. BOWEN,

At his Salerooms, 62a Aldersgate Street, and Hare Court, London, E.C. 1, on

THURSDAY, OCTOBER 6th, 1921, at 11 o'clock.
On view day prior. Catalogues of the Senior Official Receiver in Companies Liquidation, 33 Carey Street, London, W.C. 2, and of the Auctioneer.

TENDERS.

TENDERS INVITED.—Culinary Essences, 1-oz. rd. bottles; cheapest quality for export; substantial quantities: "Export" (42/54S), Office of this Paper.

PARTNERSHIPS.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-2

M.P.S. DESIRES post as Manager, with view to definite succession, gradual or otherwise; well educated; adaptable disposition; good experience, part Wholesale; capable Buyer; references given and desired; excellent opportunity for proprietor desiring more leisure; any healthy locality; small capital available. Write Davies, 101 South Hill Park, Hampstend N.W.

PARTNER wanted, with £1,500 capital, for high-class Pharmacy and Photographic business (Wholesale and Retail); Retail takings, over £4,500, increasing; partner to take full charge of Photographic Department; sleeping partner entertained. Apply 45/42, Office of this Paper.

PHARMACIST, young, energetic, highest credentials, is willing to enter into arrangement with elderly Pharmacist who wishes to retire; one whose business requires youthful energies but who feels an immediate cash sale would not give the full value of the business; moderate capital. Apply 227/51, Office of this Paner.

WANTED, position as Manager with view to Partnership or succession; excellent experience; first-class references and energetic; excellent opportunity for elderly Pharmacist wishing to ease down; capital available £1,000 (thousand); Flyde district preferred, not essential. Write, in confidence, to "M.P.S.," Fairfield, Green Lane, Bolton.

Young qualified Chemist (31), single, with small capital, excellent experience in Dispensing and Photographic, would be glad to hear from owner desiring a partner, with or without view to entire purchase at a later date; Northern Counties preferred, but not essential.

Office of this Paper.

FOR SALE.

MAHOGANY Fitting for Sale, 8 ft. 2 in. by 3 ft. 6 in.; nest of 18 drawers, with glass handles and labels, complete with the of shelves above; excellent condition; no reasonable offer refused. View, any time before 8 p.m., at 61 Silver Street, Upper Edmonton.

PILL Machine, Rotary, 1 grain, for foot or other power, nearly new, with piping press. Albert & Co., 36 North Road, Holloway, London, N. 7.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

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PICCADILLY CIRCUS (near).—Old-established Chemist Business; owner retiring; £3,000 all at. Also another in excelent position in West-End; £2,750. Crawshaw & Cross, Estate Agents, 30 Regent Street, W.

WESTCLIFF.—Main London road; splendid position; well-fitted Pharmacy; lock-up; long lease; stock approx. £350; trade (under management) about £20, could be doubled by working proprietor; £800 or offer; full particulars. Write "T. M.," 330 High Street, Stratford.

STOKE-ON-TRENT.—Light Family Retail; returns £2,500; 500. N.H.I. scrips monthly; wine licence, Gilbey's agency, Ucal; large well-fitted shop, commodious house; early transfer; valuation terms; cash purchaser only entertained. Bentley, Park Pharmacy, Stoke-on-Trent.

BUSINESS for Disposal, General, Light Retail, and Prescribeing, in busy Lancs town; price £700; correspondents please send stamped addressed envelope and banker's references. House to be let with shop; further particulars on application. Apply 228/6, Office of this Paper.

LIGHT Retail and Dispensing; old-established; corner shop, with good living accommodation, in best position of suburbor large manufacturing town; lease or sell premises; returns, under unregistered management, about £1,500 per annum; good opening for N.H.I., Optics, and Dentistry; owner retiring. Apply "Yorkshire" (228/16), Office of this Paper.

To Dental Chemists.—Dental Practice (chiefly) and Chemist's Business for Sale in central position, Lancashire industrial town; only recently opened, and capable of great extension; good living accommodation; five years' lease; price about £650. 229/26, Office of this Paper.

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I ONDON or Near.—Retail Business required; good class district; turnover £2,000-£4,000; prompt cash settlement; smaller Business considered if in good position; all information given will be treated as strictly confidential. G. M., 14 Lichfield Road, Kew Gardens, W.

I ONDON or Suburbs.—Cash Business required, with living accommodation if possible; returns about £50 a week; state full particulars and 'price; replies treated in confidence; cash purchase. Carters, 151 Lillie Road, S.W. 6.

NORTH OF BIRMINGHAM.—Middle-class Retail Business required; turnover about £1,500; state position, accommodation, turnover, and price. "Pharmacist," 32 Beauval Road, London, S.E. 22.

BUSINESS taking £3,000-£4,000 required; London; must bear investigation; advertiser can pay £2,200 down; remainder (if any) later. Full particulars, in confidence, to 231/19, Office of this Paper.

GENUINE Chemist's Business wanted in country or healthy locality; cash available about £1,000; full information requested, in strict confidence. F. C. Page, Blaby Road, Enderby, Leicester.

WANTED, genuine Drug Stores, with or without Photôgraphic side, or a Photographic Dealer's Business, in seaside or country, South of England preferred; roomy house and good garden essential; no objection to post office if attached; must bear the most thorough investigation; cash available about £500. Apply "Quest" (227/27), Office of this Paper.

WANTED, small Chemist's or Drug Store, in industrial district of London; living accommodation not essential; give particulars in first letter, which will be treated in strict confidence and a reply sent in every case. 229/20, Office of this Paper.

PREMISES FOR SALE.

THAMES VALLEY.—Stock and Fixtures, in as good as new condition; Premises for Sale; price £550. Apply "Lyndsey" (230/26), Office of this Paper.

PREEHOLD Dwelling-house and Shop in Tavistock; best business position; excellent site for Chemist and Druggist, of whom there is only one in the town; vacant possession. H. A Richards, Market Street, Tavistock.

AGENCIES.

A GENTS are earning £20 monthly on commission, selling new and popular lines. Further Agents required for Northern Counties, Southern Counties, Notts and Derby, Eastern, and Western, to carry two or three good selling specialities; good commission, first and repeats. Full particulars, in confidence, and references, to 32/88, Office of this Paper.

IRISH Agencies Wanted—Representative, travelling Ireland, own car, visiting Medical, Dental, Veterinary Surgeons, Hospitals, Chemists, open to introduce products of good houses, British, American, or Continental; suggested lines: Pharmaceutical Proprietaries, Surgical Instruments, Dressings, Dental Rubbers and Sundries, Packed Chemists' Counter lines, Household and Toilet; exceptional connection, credentials, and guarantees; correspondence invited. "Bayard" (215/31), Office of this Paper.

PEPRESENTATIVE, M.P.S., well known throughout the Midlands to Drug trade (20 years' connection Doctors, Chemists, etc.), is open for one or two sound Agencies; window displays a speciality; a unique chance for good-class house on "com." basis. Apply "Squills" (227/19), Office of this Paper.

WANTED, by manufacturing firm, Agents, on commission basis, for all districts; attractive and good profit-bearing lines; good commission offered to Agents with established connection. Apply, with full particulars, to "Emulsion" (228/26), Office of this Paper.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-

A SHTON-UNDER-LYNE.—Young qualified Manager wanted for branch; must be quick and reliable; outdoors; not afraid of work. Apply, stating age, experience, and salary required, and enclose photo (to be returned), to J. & J. Thompson & Co. (A. u.L.) Ltd., 291 Stamford Street, Ashton-under-Lyne.

BIRMINGHAM (Near).—Smart unqualified Junior (gentleman) wanted at once; must be quick and accurate Dispenser; hours 9-8, Saturday 9-9; no Sunday duty. Please state age, references, and salary required to H. N. Hodgetts, Six Ways, Smethwick, Birmingham.

BRIGHTON.—Unqualified Junior Assistant; must be smart Salesman, energetic, of good appearance and address, and possess good-class experience. State age, height, experience, salary required, and when disengaged, in first letter to Lion Drug Stores, Ltd., 75 West Street, Brighton.

LIVERPOOL.—Unqualified reliable Assistant for high-class Dispensing business. Usual particulars, G. H. Cole, Blundell-sands.

LEYTON. E.—Part-time Junior Assistant wanted at once, chiefly for evenings; personal application preferred. If by letter, state age, height, references, salary required, and when at liberty, to "Chemist," Church Road, Leyton, E.

L ONDON HOSPITAL, WHITECHAPEL ROAD, E. 1.—Dispenser wanted; must be a Pharmacist; hours 9 till 5, with occasional late duty; commencing salary £200. Application by letter only, stating particulars of age, experience, military service, to the Pharmaceutist.

I ONDON.—A vacancy will shortly occur for an Assistant with the Optical qualification; applicants please give full particulars of age, experience, salary required, etc. Apply 223/15, Office of this Paper.

LONDON, N.—Competent Schior or Junior Assistant (male) Wanted as soon as possible, single preferred, for Retail Dispensing, and Photographic Business; please state full particulars, such as age, height, experience, references, and salary required, in first letter. 230/35, Office of this Paper.

L ONDON, S.E.—Capable Assistant required (about October 1); must be reliable and trustworthy. Age, height, salary, experience, and references to Beale & Son, Chemists, South Norwood, S.E. 25.

L ONDON, S.E.—Junior Assistant required; N.H.I. Dispensing and little Counter; usual hours; no Sunday or Bank Holiday duty; preference given to ex Service man. State usual particulars and salary required, Austins, Ltd., Spa Road, Bermondsey.

LONDON, W.—Competent and trustworthy Assistant required; West-End experience preferred; immediate vacancy. Rouse & Co., 12 Wigmore Street, London, W.

LONDON, W.—Unqualified Assistant; must be of good appearance and address; good Salesman; knowledge of Windowdressing; not over 30 years of age. Apply, giving full particulars of experience and salary expected, 231/6, Office of this Paper.

MANCHESTER (Near).—Smart qualified Manager for branch; no Sunday or Tuesday duty; must be energetic, not afraid of work, and one who will put his back into it. Apply, stating age and salary required, and enclose photo (to be returned), to 37/28T, Office of this Paper.

WEST-END.—Morgan Davis, Coventry Street, W. 1, require a qualified Assistant; full-time; must speak French or Italian, and have high-class experience. Also one from 7 p.m. to midnight.

A N experienced qualified man as Senior in a good Dispensing and Retail business. W. Pickard, 3 West Kensington Terrace (opposite West Kensington Station), W. 14.

A SSISTANT, reliable, single, outdoors, experienced, in Dispeusing and Photography, for good-class family business, 20 minutes from London; hours 8.30 to 7; no duty; no N.H.I. Full particulars, age, and salary required, to Bernard W. Leefe, Pharmacist, Pinner, Middlesex.

A SSISTANT wanted, October 10th, for good-class-suburban business (outdoors), S.W. district; good, capable man, about 24 years. Write S., 42 Wyatt Park Road, Streatham Hill, S.W. 2.

JUNIOR Assistant; 18 to 20 years; gentleman accustomed to quick ketail trade and N.H.I. Dispensing; outdoors. Please apply personally or by letter, with full particulars and salary required, to J. Patterson, 52 Ilford Lane, Ilford.

M ESSRS. HOLMAN, HAM & CO., Ltd., Exeter, have a vacancy for an unqualified Assistant immediately; one just completed his apprenticeship preferred. Apply, in first instance, to Arnold, 1 old Tiverton Road, Exeter.

MESSRS. TIMOTHY WHITE CO., LTD., Chemists, Portsmouth, require a capable Pharmacist; easy hours; good and progressive salary with excellent prospects.

UALIFIED, elderly, for N.H.I. Dispensing; S.E. district; no Sunday; please send particulars and terms. 'Apply "Aspirin" (227/22), Office of this Paper.

CALIFIED Manager for modern progressive Pharmacy wanted; capable Window-dresser and good Counterman essential; salary and a proportion of the net profits; Assistant for Dispeusing and Counter also wanted. Apply W. A. Scott, 57 Lower Clapton Road, London, E. 5.

QUALIFIED Manager required, at once, for Branch (outdoors); good Salesman, Dispenser, and Window-dresser; must hold very satisfactory references. Apply (if personally, between 9 and 12) Boutalls, Ltd., 150 Southampton Row, W.C. 1.

QUALIFIED Locum (October 5th-18th) for Dispensing; must be experienced and capable; easy hours. Full particulars to Parr, 17 Orcheston Road, Bournemouth.

MART male Junior Assistant for Staffordshire branch. Apply, usual particulars and photograph, to Lands, Chemists, Coalville.

PARKE'S DRUG STORES, LIMITED, have a vacancy for a young and energetic, unqualified male Assistant. Applicant must be a good Salesman and Window-dresser, a reliable Dispenser, and have a good knowledge of Photography. Apply any morning (except Saturday) between 10 and 12 a.m. to 65 Harmood Street, Camden Town, N.W.

WANTED, capable and energetic qualified Manager for West London; must be well recommended by previous employers. Apply, by letter, to Bennisons Ltd., 8 Cale Street, Chelsea, S.W.

WANTED, at once, smart unqualified Assistant; must be well up in the business and have unquestionable references; also must be used to good-class business. Apply personally, between 10 and 12 Saturday morning, or if by letter give full particulars as to salary, experience, etc., to 70 Tottenham Court Road.

WANTED, steady, experienced, single or married Assistant, of energetic disposition; reliable Dispenser; obliging Counterman, with knowledge of Photographics; to assist management of good-class country business (Midlands); easy hours; full particulars, with salary required, must be stated in application. 229/35, Office of this Paper.

WHOLESALE.

The Advertiser may, if referred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

WEST OF ENGLAND.—Drug Traveller wanted. Apply, stating age and experience, 2/39A, Office of this Paper.

A DVERTISERS, firm of standing in faney trade, shortly building new factory in South Midland town, intend to add manufacture of Toilet Preparations, wish to treat with young, energetic man to take over management of this department; applicant must fully understand the manufacture of high-class articles such as Face Creams, Powders, Tooth Paste, and Manicure preparations and smart get-ups; operations to begin on completion of premises few months hence; the post offers a permanent progressive position to the right man. Applications are treated confidential, and should be addressed in first place to "H. P. N." (226/13), Office of this Paper.

ENERGETIC Traveller required for Yorkshire to represent a well-established firm of Surgical Dressing manufacturers and Druggists' Sundriesmen; must be experienced. Apply, stating salary, commission, and expenses required, to Sales Manager, 49/51 Central Street, London, E.C. 1.

IMPROVER required for Wholesale Chemists' Laboratory; state age, experience, and wages required. Timothy White Co.,

Ltd., Portsmouth.

MANUFACTURERS of Combs (French), importing also other Toilet goods, require Representatives on commission only, calling Retail; whole-time or side-line. Apply 7/30D, Office of this Paper.

RESPONSIBLE Representatives required, calling upon Chemists, to sell on commission largely advertised Agricultural and Horticultural lines made by well-known manufacturers; only first-class men with sound connections will be entertained. Replies; in strict confidence, giving full particulars and districts covered, and how often customers are called upon, to 15/62, Office of this Paper. of this Paper.

SALESMEN with live connection wanted to sell, on liberal terms, entirely new, greatly needed speciality to Chemists, on commission basis; exclusive territory to men who can produce results. P., 46 Goswell Road, E.C. 1.

TRAVELLER required for Hat Dyes, Varnish Stains, Floor Wax, Furniture Cream; North and South Thames districts; good commission for suitable man; references required. 25/18N, Office of this Paper.

WANTED, a competent Pill and Tablet Maker; permanent post to suitable man. Apply, with full particulars of experience, wages, etc., to "Chemicus" (21/30L), Office of this Paper.

W. B. CARTWRIGHT, LTD., MOORLAND PHARMACY SERVICE, RAWDON, NEAR LEEDS.

OWING to the continued growth of our business and the ever-increasing number of customers we are open to receive applications from gentlemen with established connections in (1) North Wales, Staffs, etc., (2) Liverpool and half Lancashire.

blished connections in (1) Arctin man, Staffs, etc., (2) Liverpool and half Lancashire.

We offer in each case a good remunerative position as full-time Representative in exchange for enterprise, energy, and the ability to consolidate and extend the spirit of goodwill and mutual confidence which exists between our many customers and curselves.

Give full details in your first letter, state exactly the ground you cover, and how often, the lines you have carried, firms represented, etc.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

OPTICAL.—Refractionist, holding S.M.C. or B.O.A. diploma, required for high-class British firm in the East; age 25 to 33; single; excellent opening. Write, giving full details of experience, to Box 1064, Willings, Moorgate Arcade, E.C. 2.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

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A.A.A. -MANAGER, just completing holiday relief, desires well recommended. "Competent," 64 Raleigh Road, N. 8.

A.A.A.—ASSISTANT (24), thoroughly experienced Disperser, Counter work and Manufacturing, now disengaged, desires post to Doctor or Chemist in London or suburbs; excellent references and good recommendations; moderate salary. "Dispenser," 8 Castlewood Road, Stamford Hill, London

A.A. QUALIFIED (34): 16 years' experience N.H.I., Prescribing, Photography, Counterman, Window-dresser, Extractor. 10 Taulman Street, Ramsey, I.O.M.

A COMPETENT Pharmacist; ex-Service; disengaged through sale of branch; good opportunity to secure really first-rate Assistant or Manager; many references; reasonable salary. Stansfield, 24 Laurel Grove, Southport.

A DENTIST and Pharmacist desires engagement; well experienced and reliable; married. "Dent," 2 Station Road, Paddock Wood, Kent.

A GOOD Assistant (lady), qualified, will be available for appointment from October 3rd; capable of taking charge. Siggins, 39 Montpellier Terrace, Cheltenham.

A LADY Assistant, unqualified, experienced Counter and Dispensing, seeks position in good-class Chemist's; London. Write 230/37, Office of this Paper.

A PHARMACIST; excellent Dispenser, good Saleswoman, Photography; Apprenticeship and seven years' experience; age 29; salary £4. "Ecgonine," 11 Kent Road, Portsmouth.

A PHARMACIST (27) requires berth; 10 years' excellent experience; well recommended. "Pharmacist," 97 Broad Street, Barry, Glam.

A PHARMACIST, as Manager or Assistant; married; 30; permanency immediately; speaks Freuch. Curran, Buckingham House, Wellington Street, Cheltenham.

A QUALIFIED Chemist as Manager or Assistant; 20 years experience; permanency desired. Davies, Chemist, Wawutach, Bynea, Llanelly.

A YOUNG, single, experienced Manager (27), with £200, desires post as proprietor's right-hand man who will offer, after trial, an interest in the business; tactful, methodical, hard worker; qualified. Write to "Energy," 23 Wormholt Road, W. 12.

A CTIVE Manager, qualified, desires situation with scope for ability; first-class experience and references; South; disengaged October 15th. Apply 229/7, Office of this Paper.

A CTIVE, reliable Assistant, 29, married, requires permanency; 14 years' good all-round experience Dispensing, Counter, Window-dressing; capable of taking charge; unqualified; state salary, etc.; interview possible; good references. P. P., M., 175 Walsgrave Road, Coventry.

A DVERTISER, qualified, 40, life experience in Retail and manufacturing, especially Toilet Specialities, progressive, energetic, capable, desires responsible position, or would take control of a good proprietary. Apply P.C.B. 40/22, Office of this Paper.

A DVERTISER desires post as Branch Manager; many years Manager, private and multi shop; Photo, Optical; qualified, trustworthy, energetic, and industrious; Londou or provincial. Apply 228/15, Office of this Paper.

A DVERTISER, young, energetic, desires position; excellent references; good experience Dispensing, Counter, Window, and Photography; please state salary offered. 231/12, Office of this Paper.

A N Improver requires situation, any part; has had Photographic and Counter experience; age 19 years. Apply "Improver" (227/320), Office of this Paper.

A S Assistant to Chemist or Dispenser to Doctor; good testi-monials; eight years' experience, chiefly with Doctors; Apothecaries' Hall qualification. Miss B., 17 Nichols Square, E. 2.

As Assistant Dispenser; age 27; married; three years' experience as Assistant Dispenser and Dresser. M.L. 75250, Office of this Paper.

A^S Locum or permanency; 15 years' Dispensing experience; capable, all-round man; immediately, wire. Benson, 19 Marina, St. Leonards.

A S Locum; highest references; well recommended; London or provinces; winter terms. Brown, 74 West Hill, East Putney, London, S.W. 15.

AS Locum; Dispensing principally; qualified; elderly; distance no object. West, 47 Vicarage Road, Leyton, London.

AS Manager or Managing Assistant of Drug Store; 13 years with last firm; keen Buyer, good Selling, Window-dresser, and Salesman; Photo, N.H.I.; 46; disengaged; London area preferred. Apply 228/14, Office of this Paper.

AS Manager or Assistant; exceptional experience; good references; active, reliable; locum or permanency; disengaged. Chemist, 6 Eastbourne Terrace, London, W.

A S Manager or Assistant; qualified; permanency desired; London or near; moderate salary; disengaged. "Statim," 7 Denbigh Place, S.W. 1.

 ${f A}^{
m SSISTANT,}$ qualified, capable, desires position Manager or otherwise; Southern Counties; abstainer. Apply Holmes, 17 Prospect Place, Bath.

A SSISTANT, unqualified, 28, requires situation in the City; 10 years' experience; good Dispenser and Salesman; excellent references; open any date. Apply P.C.B. 40/24, Office of this Paper.

A SSISTANT, tall, 18 years' good all-round experience, Dispensing, etc., London Matric., Dispensing and Chemistry certificates of the Westminster College, seeks position with Chemist or Institution; Bristol area preferred. Apply 228/13, Office of this Paper.

A SSISTANT, with good experience, unqualified, 25, well recommended, category A1, good Counterman, Stockkeeper, Dispenser, Counterman, and Photography, disengaged, desires berth immediately or Locum. Letters to "Assistant," c/o Bowling, Chemist, Pembroke Dock.

A SSISTANT; Analytical Pharmacy or Hospital; 22; married; London College of Pharmacy; six years' experience as Apprentice and Assistant. Apply M.L. 34880, Office of this Paper.

A SSISTANT', Wholesale or Retail; 23; educated Secondary School and Technical Training, Chelsea Polytechnic; seven years' experience as Assistant Dispenser. Apply M.L. 12235, Office of this Paper.

A SSISTANT; qualified; 27; good Dispensing experience; firstclass references. James A. Laverock, 9 Millar Place, Stirling.

A SSISTANT or Manager, qualified, 16 years' Dispensing and general experience, at present disengaged, seeks permanency; good solid worker. Jamieson, 39 Pepys Road, New Cross, S.E. 14.

A SSISTANT, 34, unqualified (now with Jolley & Co., Curzon Street), desires berth, middle October; London. "Phenol," 28 Melrose Avenue, Cricklewood, N.W. 2.

A SSISTANT, unqualified; 27; tall; Counter and Dispensing; London experience; disengaged. Morgan, 4 St. Alban's Road, Treherbert, Glam.

A SSISTANT, qualified (22) desires post; Dispensing, Photographic, and Counter; S.W. London or suburbs preferred. Particulars to 231/14, Office of this Paper.

A SSISTANT (23), unqualified, good Retail and Dispensing experience, desires immediate berth, in or near Leicester; outdoors; state salary offered. Barker, 79 Beaconsfield Road, Leicester.

A SSISTANT (lady); qualified; 22; London experience; expert Dispenser; used to Bookkeeping and Counter; emphatic reterences; Western Counties preferred. 'Apply 229/25, Office of this Paper.

A SSISTANT; unqualified; middle aged; single; outdoors; good all-round experience, London and country. P.C.B. 41/21, Office of this Paper.

A SSISTANT (23); unqualified; disengaged shortly; competent Dispenser and Salesman; good knowledge of Photography; conscientious worker. Apply 229/38, Office of this Paper.

A SSISTANT or Manager to Drug Stores; good all-round experience in Dispensing, Counter, Prescribing, knowledge Photography; unqualified; trustworthy; willing worker; desires permanency; good references; please state salary. Apply 250/24, Office of this Paper.

A SSISTANT, unqualified (35), good experience, both Wholesale and Retail, desires position of trust or manage Drug Stores; Bournemouth preferred, not essential. "Statim," 6 Har.ey Road, Newtown, Great Yarmouth.

A SSISTANT or Branch (38); good experience in Retail, Dispeusing, and Dental Extractions; unqualified. Thrner, 44 Macfarlane, Road, Shepherd's Bush, W. 12.

BIRMINGHAM —Lady, unqualified, seeks part-time situation, adjustable, as Counter hand; experienced; references; moderate salary. Apply 216/40, Office of this Paper.

BRANCH Manager or Assistant; young, energetic, qualified; 12 years' highest experience; highly recommended. "Locum," c/o Squire & Co., 107 High Street, Camden Town.

COMPETENT qualified Manager desires change; first-class references; London or suburbs; seven years in present position; thorough knowledge of every branch of business; position with prospect of succession preferred. Apply, stating salary offered, etc., to 228/29, Office of this Paper.

DISENGAGED; qualified; 26; thoroughly experienced in highclass Dispensing and Counter; excellent reference. Fortnam, Oxford Street, Rugby.

DISPENSER; age 26; good experience; X.Ray Operator and Electrician; General, Medical, Hospital, and Chemical experience. Apply M.L. 10619, Office of this Paper.

Do you require a part- or full-time Assistant? Unqualified; energetic. Reed, 34 Rectory Grove, Clapham, S.W. 4.

Energetic and reliable Assistant; 33; good Dispenser, Prescriber, and Counterman; full or part time. "Associate," Associate,"

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